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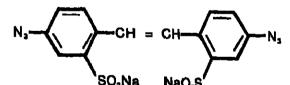
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CHEMICAL MARKETING Dec. 19, 1986 151,64

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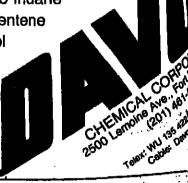
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- Glycidol



CHEMICAL MARKETING CUES

SODIUM SILICATE: Best hope for the future is CAR growth..... TDI: Price advance appears to be holding for the ment

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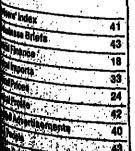
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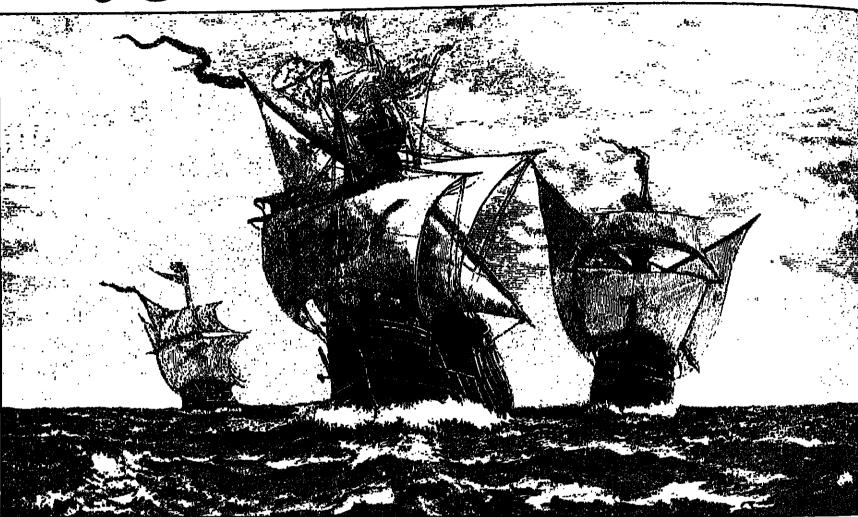
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Pont Scores Victory in Aramid Battle

RI du Pont de Nemours Inc. scored another victory is ongoing battle with Akzo NV's Enka subsidiary Revlar" para-aramid fiber patents and selling all street, when the US Court of Appeals upheld LIC's 1985 ruling barring imports of Akzo's raron" fiber into the US for the next five years. he ruling says that Akzo's imports of "Twaron"

aramid violated Du Pont's patent and damaged Liscompany's domestic market. that Enka subsidiary moved to appeal the ITC

which covers yarn, pulp, paper and related forms the fiber, in January after President Reagan upheld mr ruling. The Dutch government claimed the ig was unfair and ignored Akzo's previous counterimsof Du Pont patent infringement.

unstill has the option of appealing the court deciabitspokesmen for Enka say the company has not

yet decided on a course of action. The market for the and selling rights in the US and Europe since 1980. annually. The recent court decision, it is estimated, may add yet another stage to the conflict. will free between 5 percent and 10 percent of US market share for Du Pont's product.

commercially in 1971. Its "Nomex" solvent-spun aramid fiber has been on the market since 1961.

Currently, Du Pont's "Kevlar" is patented in 32 countries. Reacting to the court ruling, Richard Reese Pont patents. Jr., director of Du Pont's Industrial Products Division said, "We are gratified that the court supports the ITC was one of the most extensive ever conducted, and it is year plant on line in the Netherlands in 1985. significant in preserving Du Pont's rights under the US patent system." The two companies have been involved in a series of dispute over aramid fiber patents

material worldwide is said to be growing 30 percent Recent developments in a growing Japanese market

In 1983, Du Pont gained "Keylar" patent protection in West Germany, despite opposition from Akzo's Ger-Du Pont introduced its "Kevlar" para-aramid fiber man subsidiary. That same year, Enka filed suit in the US, claiming that Du Pont's "Kevlar" patents were invalid, and that its "Arenka" fiber, made by a different polymerization process, did not infringe on Du

The following year, Akzo was issued patents for its product in the Netherlands, despite Du Pont's opposion this issue of inventors' rights; the ITC investigation tion. The company brought an 11-million-pound-per-

Du Pont has called "Kevlar" the "most important

Continued on Page 21

tarbide Sells Ag Unit, lanadian PE, Buys UK Unit

templetion of the sale of its agri- as abroad. imal business, the sale of some of its edian petrochemical business, and baquisition of some specialty gas as-

ble largest of these transactions, Car-# substantially all of its worldwide gallaral products business to Rhone-Lache for \$575 million in eash. On July BM. Union Carbide announced plans to [d]Bagricultural products business. A eagreement for the sale was signed m-Poulenc Inc. on Nov. 13. The clos-14 besale of certain international porthe business is subject to local govzadal and other approvals.

Carbide Corporation said that no algainor loss is expected on the trans-

Explacilities of Union Carbide Agri-Tal Products Company Inc., a wholly-is abidiary of Union Carbide Corpora-1 are located in Institute, W. Va.; such Triangle Park, N.C.; Woodbine, inton, Iowa, St. Joseph and St. Louis, Mambler, Pa., with affiliate facilities ्रेक, Alberta, Canada; Bezier, France; abatao, Brazil.

spicultural products facilities of Carbide India Limited are not included

A sale has been structured to assure Carbide's continued ability to supply Addural chemicals currently pro-^{बीड्डांtute}, W. Va., where agricultural alsalso are manufactured.

thide, there are approximately 3,600

Min Carbide took a number of steps biggest crop protection business in the world and will enhance its position in the US as well

plies wire and cable markets, or the polyethylene operation Carbide conducts for Petromont Inc. at Carbide's Montreal East petrochemical complex.

Closing of the sale is expected in February. Carbide Canada, which is a majority-owned affiliate of Union Carbide Corporation in Danbury, Conn., says the sale is not expected to have a material impact on its financial

In the third move, Union Carbide Corporation announced that Union Carbide United Kingdom Limited, a wholly-owned subsidiary, has acquired 50 percent of Gas & Equipment, Ltd., a UK-based marketer of industrial and specialty gases.

Gas & Equipment, Ltd., is a supplier of diving gases to the offshore oil industry. It has subsidiaries in Norway, Singapore, and

Additionally, under the name of Gas & Equipment, Ltd., the mainly helium-based activities of Gas & Equipment will be combined with the existing United Kingdom Specinity Gases business of Union Carbide. Gas & Equipment will concentrate on expanding its presence in the high-growth markets requiring specialty gases, such as the fastgrowing electronics industry.

"This venture represents yet another step This venture represents yet another step in our effort to pursue high-growth markets where we can take a leading position," says John R. MacLean, president of Union Carbide's will make it the third bide's industrial Gases Business Group.

MC Sells Chloralkali Plant CanadianOxy for \$25 MM

on at Squamish, British Co-Cha, to Canadian Occidental Coleum Ltd. for \$25 million.

stigon employs 75 people and procaustic soda and 3,000 tons of muri-The products are used as bleaching

Spamish facility will be managed and odby CanadianOxy's Industrial chembivision, which runs similar plants in ino, British Columbia, and Brandon, as well as a sodium chlorate plant to the Squamish plant.

anoxy says the purchase of the hellity will improve CanadianOxy's ess, cost-effectiveness and abilter service the demand for choloral-

the purchase agreement, Canadi-

Corporation has completed its anOxy will supply hydrogen, steam and other This the sale of its chlorine/caustic utilities and services to a hydrogen peroxide utilities and services to a hydrogen peroxide plant that FMC still plans to build at plant that FMC still plant that FMC FMC will also retain its existing hydrogen

peroxide distribution facility at Squamish, which was built in anticipation of the hydro-

gen peroxide plant.
FMC broke ground for the hydrogen peroxide plant in the Summer of 1985, but by Fall of last year, FMC had begun to re-evaluate the size of the facility because of predictions of industry overcapacity by 1990.

The company then announced in February that it was postponing construction because of other projects scheduled to come on line. Degussa Corporation, for example, is bringing an 80-million-pound plant on stream next year in Mobile, Ala.

In addition to its hydrogen peroxide activities, FMC says it also remains committed to serving the Western Canadian market with other industrial chemicals, including soda ash and phosphates.

Chemical biggest crop protection business in the world and will enhance its position in the US as well as abroad. In the second transaction Union Carbide Canada Limited agreed to sell its Moore Township, Ontario polyethylene plant and associated polyethylene business to Novo, An Alberta Corporation. The sale does not include the part of Carbide's business that supplies wire and cable markets. or the

MDI Producers Say Demand Rise Will Slow

Producers of diphenylmethane di-iso- the enactment of the new tax structure will cyanate (MDI) say that demand for their curtail construction. It is also believed that product has grown from 6 to 8 percent this year. Yet, even as one producer prepares to debottleneck in the second quarter of 1987, producers say they expect comments that "construction has been little demand growth in the coming year. strong for the last two to three years, so

Producers say that relatively snug market demand has been exhausted to some extent; conditions, reflecting the strong growth rate, iguess it will be down a little bit next year, but have held pricing firm this quarter. Prices we thought that it would tail off mid-year were increased by 4 cents per pound industry-wide late in the third quarter, and producers do not point to any attrition from that

Two producers say the industry has been running "flat out" for the past several months. Another says that this is much the case for three of the four producers, although the fourth "seems to have some (excess) material." That producer estimates an industry operating rate of 90 percent.

BASF Wyandotte Corporation says it will debottleneck its Geismar, La., plant by April from 100 million to 155 million pounds per

The company says it made the necessary arrangements for the tie-in during an October turnaround, so that only a couple days downtime will be required in the Spring. Other producers say they believe a fair amount of the new production will service BASF's parent company in Germany.

BASF's turnaround and a production pr lem experienced by Rubicon Chemicals, Inc., are said to have contributed to the snug market picture.

Inventories have been depleted trying to keep up with demand," says one producer, and another comments that "the market is going to be tight for another six to eight months" until a greater abundance of material is available.

Another producer, however, downplays talk of tightness in the industry: "The two (outages) caused a flurry of stories that supply was short; when everybody's running, ngs are even."

A healthy year for the construction indus-A healthy year for the construction moustry has been a prime ingredient in MDI's growth this year, in such applications as laminate board, foam and panelling, inste board, foam and panelling.

However, there is widespread belief that

建原系统

automotive demand will also drop as a result

of the tax law and the unlikelihood that sales

An aniline supplier to the MDI industry

Seasonally, aniline demand for MDI usu-

construction generally declines during the

It is noted that aniline pricing tends to

Continued on Page 11

ally slows during the fourth quarter since

first quarter, "but this year, things haven't

will be pushed as heavily as this year.

and it has not yet done so.

slowed up," he says.

December 29, 1986 CHEMICAL MARKETING REPORTER 3

Pesticide Restrictions Extended For Food & Feed Products by FDA

Environmental Protection Agency has revoked the tolerances for aldrin, dieldrin, chlordane and DDT, four pesticide products previously cancelled. Also affected are the tolerances for TDE, a degradation product of DDT. The agency has also revoked the food and feed additive regulations for DDT and its degradant TDE and DDE. The tolerances, which are the maximum residue levels allowable in food or feed, were

not revoked at the time of the cancellations because of the persistence of these pesticides in the environment and the resultant expectation that residues would be present in raw agricultural commodities and related processed commodities for a significant period of time, according to EPA.

The revoked tolerances will be replaced with action levels which Food & Drug Administration will set and which are generally lower than the tolerance levels.

An action level is a temporary safety level for an unexpected pesticide residue in a food not targeted for treatment. They are reviewed regularly to determine if they should be further lowered based on best current data on residues and exposure.

EPA says the lower action levels should deter illegal use of these cancelled pesticides in the US and should reduce or halt the importation of foreign commodities which have been treated with banned pesticides.

The agency says the revocation rules also remove any advantage that foreign growers may have gained over US growers through their continued use of pesticides that can no longer be legally used here.

Chlordane is a pesticide once widely used to control insects in many agricultural crops as well as on lawns, gardens and around the Continued on Page 17

Columbian Sold To Phelps Dodge

Columbian Chemicals, the second largest producer of carbon black in the US, has been purchased for \$250 million by Phelps Dodge Corporation, Phelps Dodge announced. Phelps says the purchase is part of a larger effort to diversify and expand into new busi-

Headquartered in Atlanta, Columbian Chemicals produces specialty blacks and synthetic oxide in addition to its carbon blacks for the rubber industry. Columbian has plants in Great Britain, West Germany, Italy, the Phillipines and Canada, as well as five carbon black plants and two synthetic oxide plants in the US.

Columbian will retain its present manage-

R&D Spending Set to Rise

The chemical industry will spend some \$10.8 billion on research and development in 1987, with 97.1 percent to be industrially funded, according to an annual survey by the Columbus Division of Battelle, Inc.

The research group forecasts total R&D expenditures in the US in calendar year 1987 of \$127.4 billion, a \$8.8 billion increase over the \$118.6 billion the National Science Foundation estimates will actually be spent in 1986. .

While part of the increase will be absorbed by continued inflation, Battelle a real increase in K&D expen tures of 4.33 percent, slightly higher than the ten-year average rate of 4.26 percent in real R&D effort experienced since

For industry overall, support of R&D is forecast to be \$63.8 billion, up 7.2 percent, while Federal support is expected to total \$59.5 billion, up 7.6 percent, Funding by academic institutions is expected to be \$2.75 billion and other non-profit organizations will provide \$1.45 billion.

The \$10.8 billion spent by the chemical industry on R&D ranks behind aerospace (\$23.6 billion) and electrical machinery and communications (\$21.4 billion), but ahead of machinery (\$10.1 billion) and autos, trucks and other transportation equipment (\$8.7 billion).

Monsanto Sees **Dumping Duties**

Monsanto Company expects "substan-tial" antidumping duties to be imposed on industrial phosphoric acid from Belgium and Israel.

The company's comments followed a ruling by International Trade Commission that dumping petitions filed by Monsanto and FMC Corporation are supported by sufficient evidence to justify further

The commission said it found a reasonable indication that US producers of industrial phosphoric acid have been injured materially or have been threatened with material injury by the imports. The Commerce Department will now launch a full-scale investigation of the dumping

"We believe the dumped material is be-ing sold at prices in the US lower than those at which it is sold in Belgium and Israel and that the exporting firms are receiving unfair subsidies from their governments.'' Monsanto said last week.

Monsanto said its share of the market has declined, prices for the product have fallen and the company has been forced to close a production unit in Kearny, N.J. Monsanto continues to make phosphoric acid at four other plants in the US.

Asahi Adds to Count Of Membrane Units

Caustic soda capacity based on Asahi Chemical Industry Company's membrane chloralkali technology will reach 1.3 million tons in 1987, including five new plants scheduled to come on line around the world in the

Adhesives Plant Slated

H.B. Fuller Company, the St. Paul, Minn.-

based manufacturer of specialty chemicals, plans to build an adhesive production facility

The new \$10 million plant, planned to open

in September, 1988, will be part of H.B.

Fuller Company's Adhesives, Sealants &

The new 60,000 square foot adhesive plant

will occupy nine acres of H.B. Fuller Com-

pany's 40-acre site in Foothills Industrial

Park. Additional development of the site is

The Roseville facility is designed to re-place a smaller, outdated plant in Newark, Calif., which will gradually be phased out.

sible in the future, but as yet is unsched-

In California by Fuller

in Roseville, Calif.

Coatings Division.

A pair of new 20,000-ton units are expected to start up in China next year and an additional 10,000-ton plant in 1988. Sumitomo Chemical will bring on an 84,000-ton facility in Japan in '87 and Brunswick Chemical Company will add a 52,000-ton plant in the

Largest plant in the offing, however, is the joint E.I. du Pont de Nemours & Co. and Olin Corporation chloralkali facility underway at Niagara Falls, N.Y. and scheduled for late 1987. The \$100 million unit is the largest to use the Asahi technology after the 30,000-ton plant of Akzo Zout Chemie in the Netherlands which was started up in 1983 and expanded in

Dow Corning Buys Specialty Products

Wickhen Products, Inc., a supplier of specialty chemical materials to the cosmetic. pharmaceutical and allied industries, has been acquired by Dow Corning Corporation for an undisclosed sum, it was announced last

Wickhen has headquarters and manufac-turing facilities in Hugenot, N.Y. and its Recon research and development center in Montgomery, N.Y. It will operate as a wholly-owned subsidiary continuing to serve the needs of its customers and evolve as an East Coast Service Center for Dow Corning.

Dow Corning personal and household care industry manager Jere Marciniak said, "We are excited about the synergy created by the acquisition which will benefit the industries and customers both companies served.

"Wickhen's proven capabilities in active antiperspirant salts, fine esteres and unique polymer systems fit nicely with the silicone technology, products and services we offer,"
Marciniak noted.

India in Potash Talks

The Indian government is reportedly holding talks with Canadian officials on taking an equity stake of 20 to 25 percent in a planned potash mine in Manitoba. India is said to be insisting on paying for its interest in the \$400 equipment, rather than hard currency.

Exxon Chemical Starts Resin Unit

Exxon Chemical last week noted the onschedule startup of an additional plant manufacturing its "Escorez 5000" series of hydrogenated resins. The new plant is located at Exxon's Baton Rouge Chemical company and complements its existing facility in France. according to the company, it was built in response to increased demand worldwide for water-white tackifiers for adhesive and sealant polymers.

"The plant reflects our commitment to the adhesives and sealants industries," claims James J. Protulipac, adhesion products manager. "It provides our customers with a US source for these resins, which together with our plant in France strengthens our ability to meet the needs of our customers worldwide.

"Because the US plant was designed for easy expansion," he adds, "we'll be able to move rapidly as new hydrogenated resins are ready for commercialization and as demand increases for these specialty resins."

Ruhrchemie Expands Polyethylene Units

Ruhrchemie AG, the Oberhausen, West Germany subsidiary of Hoechst AG, is exanding its production facilities for ultrahigh-molecular-weight polyethylene to 20,000 tons a year.

Hoechst also produces the resin at the Bayport, Tex., complex of American Hocclist Corporation. Ruhrchemie says Hoechst's ompany-wide production capacity for UHMWPE is 32,000 tons.

The material is used in the mechanical engineering field, linings of bunkers and transport containers, implantation surgery and the sports sector (artificial ski slopes, skittle alleys.)

Fike Corporation **Enters Joint Venture**

Fike Corporation, Blue Springs, Mo., says it has formally joined Fauske & Associates, Inc., Burr Ridge, Ill., in a "unique arrangement where each company supports the other" to provide products and services related to Emergency Relief System (ERS) design for the chemical, petrochemical and other process industries.

Fike, with support from FAI, says it provides a broad range of laboratory apparatus and testing services for ERS purposes. It recently developed "vent sizing Package" test equipment and methodology that are used to obtain data for sizing safety and relief million project in the form of trucks and valves, rupture disks, and other relief



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Onewald Oswald
OPD CHEMICAL BUYERS DIRECTORY-Gastate



in industrial revolution is taking best acquisition options or his most suitable partners for joint ventures. The research also can help a company evaluate a competitor. or arrange a licensing deal for the new tech-Who are these companies? Mr. Commins describes them as "indus-

ording to a study by JACA Corporation, The study forecasts that firms producing

atories has elected Duane L. Burnham (left) vice-chairman and Jack W. Schuler

Advanced Materials Firms

Are Hot Acquisition Targets

trial sleeping dogs" and while the names of the firms are available only to those who buy the report, JACA says the companies have sales of \$3 million to \$100 million annually. fall into three categories—advanced composites, high performance ceramics, and high performance metals-and are primarily privately-held American manufacturing firms which produce for end-use markets.

Sales in one of these technologies-advanced composites-will grow at an annual rate of 22 percent a year. By 1990, sales will reach \$3.9 billion, compared to \$1.45 billion

last vear. "We're in the days of a collapsing market, hese advanced materials are being used except in these industries," Mr. Commins ob-Such common, everyday commodities as dubs, bicycle frames, auto parts, body erves. "What other business area do you know of that will double in four years?" researchers have come up with what

The study forecasts that the aerospace and the commercial and private aircraft industries will incorporate more composite parts. Continued on Page 14

Leprosy Drug Approved For Use in the US by FDA

Rek approved a new drug to treat a amol leprosy that has grown increasly resistent to other drug treatments. almine will be marketed in capsule munder the trade name "Lamprene" Ciba-Geigy Corp., which has made it Tallable as an investigational drug to on 6,000 US patients since 1966.

accamong the nation's high-tech com-

mis that will soon make metal door

bobs and aluminum beer cans as obso-

Mastheold-fashioned milk bottle, ac-

ralled "advanced materials" will double

behundred fifty of these firms—mostly

ivately held—were analyzed in the study

diound to be the "hottest acquisition" can-

isks for companies seeking diversifica-

efirms, says company president James

Commins, produce the goods that are des-

dio replace ordinary metal products of

Commins calls "a shopping list" of un-blished and, rarely published facts on

manufacturing, technology and mar-

ting that can help a CEO better locate his

nt Washington, Pa.

aand growth.

bir present sales by 1990.

lans and even bridges.

de drug has been in use for more than a

any form or by electronic invented intented in the first state of the world where and record or in any information it with the system, without prior permission in writing it was a system, without prior permission in writing it was a system, without prior permission in writing it was a system, without prior permission in writing it was a system, without prior permission in writing it was a system with the form 3578 to Fulliment Mander 1 and 1 and

Food & Drug Administration last hibits the growth of the bacteria that cause

the disease. Clofazimine is usually given with one or more other anti-leprosy drugs, for leproma-tous leprosy, which is characterized by skin lesions that enlarge and spread and by nerve involvement that may cause loss of sensation and paralysis. The disease also can cause severe deformities and damage the eyes, kidneys, testes and membranes of the mouth,

The control and effective treatment of leprosy has changed dramatically over the past 45 years as drug therapy has become avail-able. Early detection and treatment of the disease can prevent it from developing into a highly infectious type of leprosy and avoid physical disability and disfigurement.

With appropriate treatment, infectiousness is suppressed so that patients pose no risk to their families or other members of the community. In addition, patients can be treated at home rather than being confined to costly leprosariums. Long-term treatment usually is necessary.

Leprosy has been known from Biblical times, but its bacterial cause was only discovered just over a century ago. The disease is not yet entirely understood, and research

Himont to Offer Shares to Public

based polypropylene joint venture of Hercules Incorporated and Montedison SpA of Italy, said Wednesday afternoon (December 24) that it plans an initial public offering of 12.5 million shares of common stock, equal to a 20 percent ownership in the company.

A registration statement relating to the securities has been filed with Securities & Exchange Commission, but has not yet become effective. A Hercules spokesman said last week that

details about the offering price of the securities and how the proceeds from the sale will be used cannot be disclosed until a formal

ospectus is issued. The offering will be made simultaneously through two underwriting syndicates led by Wertheim & Co. Inc., First Boston corpora-REMIN LEBORATORIS 183 STEELED DURING L. DURINGAM (1817) VICE-CHAIRMEN AND JACK W. SCHUIBF (1817) VICE-CHAIRMEN AND JACK tion and Goldman Sachs & Co. in the US and Wertheim & Co. UK Ltd., Credit Suisse First Boston Ltd. and Goldman Sachs International Corporation abroad.

Himont has granted the US underwriting syndicate an option to purchase up to an additional 1.875 million shares.

Upon completion of the offerings, Hercules and Montedison will each own approximately 40 percent of the outstanding shares of Himont common stock.

In addition to the public offering, Hercules alsosaid last week that Alexander F. Giacco will serve as full-time chairman and chief executive officer of Himont.

Mr. Giacco early announced plans to retire

Himont Inc., the Wilmington, Del.- as chairman, president and chief executive officer of Hercules, effective March 24, 1987. He has been chairman of Himont since its formation.

R. Michael Hendricks will continue as president and chief operating officer of Hi-

The Hercules-Montedison venture, formed n November 1983, is a worldwide manufacturer and distributor of polypropylene and polypropylene-based products. The venture claims to be the world's largest producer of



'Bendectin' Award Overturned In Federal District Court Ruling

A Federal judge in Washington, D.C., has overturned a \$1.16 million judgment against Merrell Dow Pharmaceuticals Inc. in connection with the anti-nausea drug, "Bendectin."

The overturned jury verdict had been en-tered on September 18, 1986, in favor of a 10-year-girl after a seven-week trial. Merrell Dow said the award was granted to the child and her parents despite the fact that the jury found that "Bendectin" was neither defective nor unfit and that Merrell Dow was not negli-

In a 14-page opinion, Federal Judge Thomas P. Jackson of the US District Court for the District of Columbia, stated, "No reasonable jury could find on the basis thereof that this infant plaintiff's birth defects were more likely than not to have been caused by her intrauterine exposure to Bendectin.

In his opinion, Judge Jackson referred to the "now nearly universal scientific consen-sus" that "Bendectin" has not been shown to

be a teratogen, adding that "reasonable jurors could not reject that concensus without indulging in ... speculation and conjecture.

Among the experts testifying on behalf of Merrell Dow at the trial were: Dr. Raymond Seltser, dean and professor of epidemiology, School of Public Health at the University of Pittsburgh; Dr. Charles Epps Jr., professor of orthopedic surgery. Howard Univestity, Dr. Kenneth Rosenbaum, director of the genetics laboratory, Children's Hospital National Medical Center in Washington, D.C.; and Dr. James Goddard, former commissioner of

To date, there have been eight other trials involving "Bendectin" in the US. In March 1985, a jury in a trial in Federal court in Cincinnati, which included approximately 1,150 plaintiffs, ruled that "Bendectin" did not cause birth defects. In four trials involving single plaintiffs; 1981, 1985 and 1986 two jury verdicts were in favor of Merrell Dow. In two others in 1986 one ended in a mistrial Continued on Page 17

Asbestos Coalition Joins Du Pont, Carbide, Other Firms

Rhodes-American.

"Increasing public awareness of health problems associated with asbestos has stimulated leaders in various segments of indus-try to begin the transition away from asbestos to non-asbestos alternatives," says Du Pont's Thomas F. O'Brien, a spokesman for the new Alternative Materials Institute.

"As this transition to non-asbestos materials gains momentum," he says, "govern-ment, industry and consumers need up-to-date information about the availability of alternatives to asbestos in such key end-uses as automotive brakes and transmissions, made fibers.

A coalition to promote the availability gaskets and packings, and adhesives and and use of safe, effective alternatives to aspestos has been formed by E.I. du Pont de Nemours & Co., Union Carbide Corp. fact that this transition has already begun Standard Oil Company, Ashland Oil and seems to be one of the best-kept secrets around," says Mr. O'Brien.

Although many uses of asbestos have been curtailed or discontinued, asbestos continues to be used in a wide variety of industrial, commercial and residential applications.

EPA has proposed to ban most asbestos uses. In 1985, about 450 million pounds of the product were consumed in the US — almost all of it imported.

Mr. O'Brien says examples of alternatives to asbestos include aramid fibers, ceramic [lbers, carbon fibers, flexible graphite, steel fibers and various other mineral and man-

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Pfau Teamwork

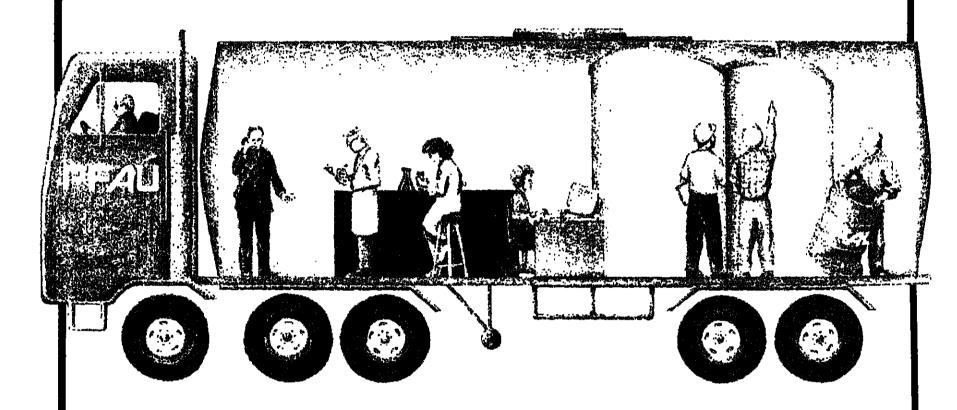
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CH₂ Cl₂ Limit lirged by Union For Workplace

guilleation" for Occupational Safety & kalth administration's delay in acting athemion's petition for an emergency udard on methylene chloride to lower permissible workplace exposure

The mion called for immediate action afath Labor Department unit denied the Wetition and announced it would carry a kingthy rule-making process before uting a decision on the chemical.

h Frank Mirer, director of UAW's safety ചിങ്ങിൻ program, says he hopes new OSHA xto John Pendergrass moves quickly on ēloping a new standard. To live up to the promises already made,

will have to provide faster action in comdig the rulemaking than it took to start

D. Mirer complained that the 16 months it 108HA to deny the union's petition was long and the projected date for final acsanother year and a half away. "This is loo long given the gravity of the public lists. We are going to do everything we looked up the timetable," he says. It Mirer says that since the union's peti-

forea Steel Starts Output MNew Units

Continued on Page 17

Mea Steel Chemical Company, a mber of the Daewoo Group, has utel production of carbon fiber and a family of water-soluble resins at South Korea. The company has ed about \$17 million in the two

Reliy of the \$10 million, polyacryloni-based carbon fiber plant is 150 metric anally. South Korea's consumption of Miber reached 120 tons last year and is aded to grow at the rate of about 20 ata year, the company says.

emphasis will be on domestic Coan-Wook Kim, president of Korea Chemical, says the company intends to an export market in the near future. one is also trying to develop new tech-What would allow it to utilize coaltar a lower cost raw material. The pitch is lable from an existing plant at Pohang.
be \$7 million water-soluble resins plant innual production capacity of 1,500 tons rear. Most of the product, to be sold under Carbosense" trade name, will be exist to the US, Europe and Southeast Asia. taleals in Korea, also produces agrichemits. bulk pharmaceuticals and hexrophene. Sales in 1985 totaled about \$91 in, including exports of \$58 million. and the Daewoo Group were in excess of

Vaccine Shortage Feared as Result Of Gov't Campaign

group unable to be immunized because of faulty government and drug industry warnings about this Winter's new strain of "Taiwan A" flu, a public health group charged last week.

Dr. Sidney Wolfe, director of Public Citizen Health Research Group, said he has received nationwide reports indicating that so many people outside the proper high-risk group have sought and received the vaccine that supplies are low, and in some cases, have been exhausted already.

The problem arose in October when Dr. Robert Windom, assistant secretary for Health & Human Services Department, is-sued recommendations about who should get the vaccine at a news conference sponsored by the National Foundation for Infectious Disease, an organization largely funded by the drug industry.

Newspapers around the country quoted Dr. Windom as saying the vaccine should be

ply, leaving many people in the high-risk according to the Federal Center for Disease Control in Atlanta, the Taiwan flu vaccine is recommended only for those under 35 who also suffer from chronic diseases such as herat and lung ailments, diabetes, anemia, asthma and kidney disfunction.

CDC's immunization practices advisory committee says most people over 35 were exposed to the virus when it was last prevalent in the 1950's and still carry protective antibodies.

Dr. Wolfe called the news conference a "blatant disinformation campaign carried out by the industry-funded NFID." William Small, the executive director of NFID, conceded that news reports of the conference carried erroneous information, but denied there was an effort to misinform the public.

In a letter to HHS Secretary Otis Bowen. Dr. Wolfe sald Dr. Windom "displayed his ignorance about flu" when he gave the media correct recommendations

"This backwards program promoted by a Continued on Page 41

Fiber Optic Sensors to Grow

Despite sluggish conditions in capital fiber optic sensor market is enjoying exceptional growth, according to a new research report by International Resource Development, Inc., a consulting firm located in Norwalk, Conn.

The company projects the US market will grow more than tenfold over the next eight years, to more than \$400 million in 1995. This compares with US shipments of \$30 million in 1986, the company says.

Fastest growth, according to the report, will be in "hostile" applications, where the relatively high cost of fiber optic sensors is justified by their resistance to rugged environmental conditions such as extremely high temperatures and electromagnetic interference.

Major applications in hostile environ-

equipment markets, every segment of the aerospace, energy and metals, transportation, petroleum, and chemicals and plastics industries. Particular applications include sensor systems for nuclear reactors, conventional power gernerating equipment, turbines, jet engines. petroleum and chemical processing plants and other industrial environments characterized by extreme temperatures, highly flammable materials, toxicity and other unstable conditions.

The study points out some of the advantages fiber optic sensors offer in hostile environments. For instance, fiber optic versus mechanical or electrical sensors are characterized by immunity to electromagnetic interference (EMI), radio frequency interference (RFI) and radiation,

Continued on Page 20

Textile Industry Had Better Year In 1986, But Still Sees Problems

The textile industry in 1986 showed some improvement over the past year, but a record level of textile and apparel imports kept a lid on the industry's economic recovery.

The industry's annual economic report, compiled by the American Textile Manufacturcres Instituto, shows that 1986 textile shipments, valued at \$54.7 billion, were up 4 percent over 1985. Textile imports increased percent over 1985.

Imports of textiles and apparel combined reached an all-lime high of 12.7 billion other record. It was the sixth successive It will relate import growth to d record year for textile and apparel imports.

For the first time, imports of apparel and apparel fabric captured more than half of the domestic market in 1986, as market penetration reached 52 percent, according to the in-

Textile industry employment showed a one percent gain, averaging 708,000 in 1986 compared to 704,000 in 1985. At the same time, average hourly wages increased 3 percent to \$6.93 per hour.

Textile industry earnings on sales were at 3.8 percent during 1986 compared to 2.4 percent in 1985. Industry investment in new

ATMI president Dewey L. Trogdon. "Because the market is barely growing and imports continue to climb, the industry's imporved situation could be very short-lived.

"We are absolutely convinced that the industry's growth prospects and even its survival over the longer term are threatened unless our government takes the necessary steps to slow the growth of imports," Mr.

Trogdon says.
"It is clear that we must have a legislative colution to the problem and we will be working with Congress on the introduction of legislation early next year. This legislation will square yards in 1986 and the textile and appromised but never came close to achieving. ket growth.
"For 1986, industry capacity utilization

has averaged around 90 percent," he said.
"This is to be expected in light of the plant closings and a 9 percent shrinkage of the cosings and a y percent surinkage of the industry's capacity over the past five years. If this amount of capacity had not been written off, our operations would be running at close to 80 percent of capacity," he said.

"While industry profits as reported by the

government, are well shead of a year ago, 1985 was a depressed period for industry pro-duction and sales," he said. "Industry profits cent in 1985. Industry investment in new almost always improve as shipments in plants and equipment was down four percent crease, but we do not know how much longer for the year to \$1.7 billion.

"Import growth has averaged over 20 per ket growth and continued high import cent a year during the past five years," says

OSHA Cites Shell Oil Co. **At Deer Park**

Occupational Safety & Health Administration last week cited Shell Oil Company's complex in Deer Park, Tex., for 61 alleged instances of willfully violating Federal recordkeeping requirements and proposed a \$4,000 fine for

OSHA also cited the firm for three alleged serious violations of respirator, hazard information, and shower and wash facility requirements and proposed \$960 in penalties, bringing the proposed fines to \$244,960.

Shell denied any wrongdoing and said it would contest the allegations. The company has 15 days to challenge the citations and the proposed penalties before the independent Occupational Safety and Health Review

"We continue to be concerned that some employers are ignoring OSHA's injury and illness reporting requirements, and when we find apparent willful recordkeeping violations, we will respond accordingly," said John A. Pendergrass, assistant secretary of labor, who heads OSHA.

In recent months, the agency has cited several companies for similar alleged recordkeeping violations, including Union Carbide, Chrysler, Fina Oil & Chemical Co., Du Pont, Monsanto and USX

The alleged violations at Shell involved several types of injuries, including burns; back, cervical, groin and shoulder strain; contusions; and inhalation of toxic sub-

The citations resulted from an inspection which began June 16 at Shell's hydrogen sulfide manufacturing units at Deer Park as

Continued on Page 41

Damon Biotech Breakthrough **Wins US Patent**

Damon Biotech, Inc., a majorityowned subsidiary of Damon Corporation, says the US Patent & Trademark Office has approved a patent for the company's cellular enhancer technique. a technology for large-scale production of new biological products.

Damon Biotech claims it has already applied its cellular enhancer technique successfully to the production of tissue plasminogen activator (t-PA) and pro-urokinase.

"The cellular enhancer technique can be combined with our patented "Encapcel cell growth system to form an integrated manufacturing process for the production of biological products such as t-PA," says Robert P. Schneider, president and chief operating officer of Damon Biotech.

"We are already using this process to produce quantities of t-PA for pre-clinical trials and believe that this process will allow us to produce t-PA in greater quantities and at lower costs than competing companies. We are very pleased with the broad legal protection which this patent will afford for the proc-

The cellular enhancer was discovered at the Massachusetts Institute of Technology and licensed exclusively in the United States to Damon Blotech.

A cellular enhancer is a sequence of genetic material, which, when combined with the gene for the desired biological product, significantly increases the production of that product from a mammalian cell. The patent will cover all tissue specific mammalian cell enhancers.

Mammalian cells are the most desirable production vehicles for many of the new blological products being developed by the bio-technology industry. However, these cells are difficult to grow in quantity and they produce a relatively small amount of product, which has made large-scale production difficult.

December 29, 1986 CHEMICAL MARKETING REPORTER 7

Urea From East Dumped in US, **Commerce Says**

News Capsule

now Chemical Company and Con-

amers Power Company have asked for,

debtained, an extension of the recess in

the trial between the companies until the

end of January 1987. The two say "signifi-

cast" progress has been made in negotia-tions required to form a partnership to convert the idled Midland, Mich. nuclear pant into a natural-gas fueled, combined

Warner-Lambert Company says con-

inction has started on a plant at Suzhou,

Gins, to produce empty hard gelatin cap-

used in pharmaceutical manufac-

uning. The company signed a \$14 million

the venture for the plant with China Na-

ical Corporation of Pharmaceutical and ichical Cooperation in July. Warner-

ambert will supply the machinery and

minology necessary to produce cap-

National Starch & Chemical Corpora

imhas acquired Bassi Marchini & C. Spa, idatrial adhesives maker in Mezzago

har Milan, Italy. Terms were not dis-haed. The Italian firm markets a range

d products, including polyvinyl acetate ad hot melt adhesives to the packaging, wwerting, bookbinding and woodwork-ightustries.

Kemira-Superfos Pact

Kemira Oy, Finland's state-owned fer-

ter and chemical company, will take a percent interest in a new fertilizer sub-

iday being set up by Denmark's Super-

A Sales of the new unit, to be called

Species Fertilizers, are expected to total that \$200 million in its first year of oper-

Asarco Inc. has established a technical

rices center in Salt-Lake City, Utah to

wide consulting services in various

tes, including engineering, environ-

watel sciences, research and security.

Recenter consolidated Asarco's depart

wats of environmental sciences, re-

archand engineering into a single unit.

Dow Chemical Company says it will

ward more than \$400,000 this year in

^{Miching} grants to the Presidential

long investigators program adminis-

kelby the National Science Foundation.

heprogram supports the research of out-

anding young science and engineering releasors. The program began in 1984

^{od nearly} 100 of the 500 winners to date

te pursuing chemistry or chemical engi-

BP Chemicals says it has developed an

^{Ich} can be applied underwater. The

product is intended primarily for sub-

maintenance in the offshore energy

Martin Marietta Corporation has

greed to sell an alumina refinery on St.

holy to an Omaha businessman for \$45

llion. The sale will mark the company's

hal withdrawal from the aluminum busi-

^{|IP Develops} Coating

^{Martin} Marietta Sells

low Aids Fund

Asarco Opens Center

Athesives Unit Sold

rcle cogeneration plant.

Capsule Unit Started

Now Case Extended

The Commerce Department ruled last Wednesday that the Soviet Union, Rumania and East Germany sold urea in the US at prices below the cost of production, it was reported last week.

The ruling requires importers to post bond with the US Customs Service equal to 84.9 percent of the value of Soviet urea, 144.11 percent of East German urea and 53.71 percent of Rumanian urea.

The decision was prompted by a petition of the Ad Hoc Committee of Nitrogen Producers. The producers allege that shipments of East Bloc urea have risen to more than 22 percent of the US market, from about 3 percent in 1982.

The Commerce Department must make a final ruling before March 10 and may adjust the dumping margins at that time.

The International Trade Commission then lias 45 days to decide if the Eastern-bloc urea has injured American producers by driving down prices and reducing domestic employ ment. The commission made a preliminary ruling of injury in August.

Sterling Drug Buys OTC Firms In France, Italy

Two European over-the-counter pharmaceutical companies have been acquired by Sterling Drug, Inc., it was announced last week by John M. Pietruski, chairman and chief executive officer of

Financial terms of the transaction were not disclosed, but the two companies are said ined sales of close to \$30 million

The two companies are Laboratoires Valda, a family owned company founded in Paris in 1902 with manufacturing facilities in France and Italy, and Laboratoire du Docteur Furt, a company based in Bordeaux. According to Mr. Pietruski, the acquisitions "are important steps in Sterling's stated goal to strengthen the comany's presence in these two key country markets.

Sterling says that Valda pastilles are wellknown throughout Europe, are market leaders in both France and Italy, and have strong export sales. The company also makes and markets medicated gums.

FTC to Hoechst: More Information

Corporation could be delayed until after the new year, when scheduled changes in Hoechst launch the US tax code would make the deal less attractive to Celanese shareholders.

Hoechst's US subsidiary, American Hoechst Corporation, said last week that it has already supplied "voluminous material" in response to a second request by the Federal Trade Commission for additional information concerning the proposed merger, but that the FTC wants more.

For that reason, American Hoechst said, it could not give any assurances that the \$2.8 billion tender offer for Celanese could be completed by the end of this year. Capital gains will be treated less favorably when provisions of the new tax law take effect

American Hoechst said it had been advised by Celanese that some of its officers and directors are seriously considering selling some or all of their shares in the market on or prior to December 31 in order to recognize long-term capital gains this year.

The tax implications of a delay of the merger until 1987 is a "variable that cannot he dismissed," according to Jay Meltzer, chemical analyst at Goldman Sachs & Co. But he adds that there are "still so many more pluses than minuses" about the deal the second largest maker of filament fiber.

Hoechst AG's acquisition of Celanese that even if it is postponed until next year, it

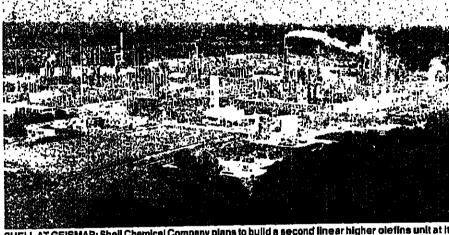
Hoechst launched a cash tender offer for all 11.1 million outstanding shares of Celanese stock in early November for \$245 per share. Hoechst is also offering \$172.40 per share for all outstanding shares of Celanese convertible preference stock and \$102 per share for all the company's 7 percent preferred stock.

American Hoechst said on Wednesday (Deember 23) that it was further extending the expiration date of the tender offer until the close of business today (December 29). Shares previously tendered could be with-

As of the end of the business day last Monday (December 22) approximately 9.7 milon shares of Celanese common stock had been tendered to Hoechst, along with 13,864 shares of convertible preference stock and 20,466 shares of 7 percent second preferred

Analysts who saw synergism in the combination of the companies' polyester fiber op-erations say that is probably what concerns the FTC about the merger of Hoechst and

The merger would make Hoechst the largest Us producer of staple polyester and



SHELL AT GEISMAR: Shell Chemical Company plans to build a second linear higher olefins unit at its Geismar, La., plant. The new unit, based on Shell's higher clefin process (SHOP) technology, will have an annual capacity of 535 million pounds of alpha clefins, as well as internal clefin capacity. With the expansion, Shell's overall capacity will exceed 1.3 billion pounds at Geismar.

DuPont Sells Off Polyester Lines, Citing Change in Strategic Needs

completed the sale of its worldwide business for "Reemay" spunbonded polyester and the US-based business for

"Typar" spunbonded polypropylene.
The buyer of these units is Reemay, Inc.,
an affiliate of InterTech Group of Charleston, S.C., a diverse group of manufacturing, specialty and other operating compa-

nies. Terms were not disclosed. The sale includes manufacturing facilities for these products at Old Hickory, Tenn., as well as associated patents, technology and inventories. Not included is a manufacturing facility for "Typar" in Luxembourg and the European-based business for that product.

About 375 employees are involved in the roduction of "Typar" and "Reemay" at Old Hickory. The InterTech affiliate is filling most of its employment needs from Du Pont

"Du Pont is selling these US-based businesses because they no longer fit the company's long-range business objectives," says Michael B. Emery, director of the Engi-neered Nonwoven Structures Division in Du Pont's Textile Fibers Department. Jerry Zucker, chairman and chief executive officer of Reemay, Inc. and The InterTech Group, Inc., says, "Reemay views this acquisition as a significant part of a broad strategic plan to sponges and dressings and wipes.

E.I. du Pont de Nemours & Co. has expand into specialty markets associated with spunbonded nonwovens and related interTech products."

Mr. Emery says, "Du Pout will continue to compete in the nonwovens market with 'Tyvek' spunbonded olefin, produced at the Spruance plant in Richmond and a new plant under construction in Luxembourg, and Old Hickory's 'Sontra' spunlaced fabric, which serve different market segments and are

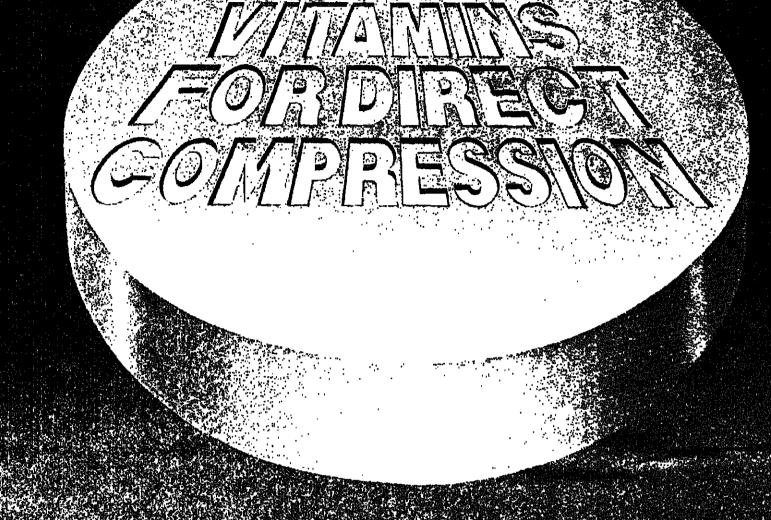
strategic to Du Pont's long-range plans." He says the European business for "Typar" is a strong performer in a distinctly different and more stable market primarily oriented to carpet backing. "The European carpet market favors products for which the proper-ties of 'Typar' as a backing are valued," he

Primary US markets for "Typar" are ge textiles, furniture, bedding and carpet backing. "Reemay" is sold mainly to the filtration and interliner markets.

Principal applications for "Tyvek" are courier packs, envelopes, maps, tags, labels, foll packaging laminates, sterile packaging, house construction wrap, and protective disposable and limited use garments.

Major uses for "Sontara" comprise aramid substrates for safety apparel and composites, home furnishing face fabrics, inter-linings and limited use medical apparel,

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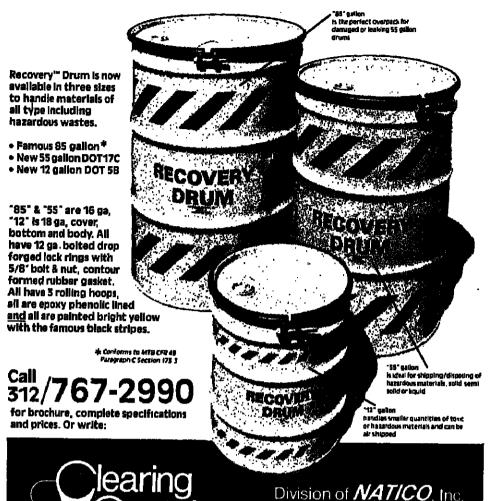
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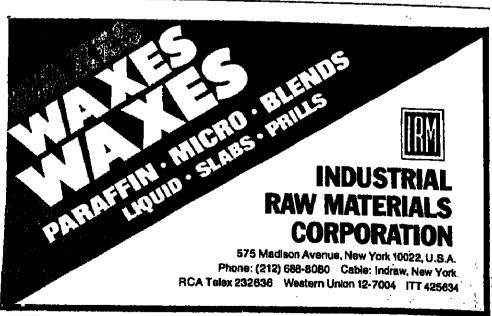
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OILS, FATS & WAXES

Peanut Oil Prices Slip Further DI Producers from Page 3 Buyers Backing Out of Marketing the benzene market fairly indicated and the benzene ma

Peanut oil prices slipped further to round 25 cents per pound toward the around 25 cents per pound toward the end of last week. The high price and low quality of peanuts has been prompting buyers of the oil to back out of the market, forcing oil prices down 6 to 7 cents per pound over the past six weeks.

Last year's huge peanut crop of 4.1 million tons caused a glut of oil to flood the market, driving peanut oil prices down to 18 cents per pound — a level comparable to soy and corn

The unusually low peanut oil prices un-leashed a buying binge which, in turn, brought pricing back up to a level that could not be sustained

Imported oil from Europe became cheaper than the US product, sources note. "Even with the 4-cent duty charge, the buyers were paying 1 to 2 cents less than US oils," one says. "There was a panic selloff about two weeks ago and that ran prices back

A severe drought over the Summer ravaged this year's peanut crop, which is 16 per-cent below last year's yield, but sources speculate that there is still surplus oil left from

"It was assumed that the surplus oil from the 1985 crop was sold in the Fall," says one source, but "it could be that suppliers are now having difficulty because it wasn't sold and nobody needs any more peanut oil."

BUYERS HOLDING OUT

Another source believes the slowdown in trade is due largely to buyers holding out for the Commodity Credit Corporation to unload their inventory. The CCC reportedly has 54,412 tons of peanuts to dump into the market, with 10,000 edible segregation 1 peanuts and 40,000 segregation 3 to be crushed. "Most of the purchasers know how much CCC has in stock and will wait until the crop goes out," says a USDA source. "They just don't bid now and suppliers are forced to lower their prices n an attempt to sell their stock."

"It is fairly normal for markets to go down at this time of the year," says another source. "The CCC usually offers its stock at the end of FATS December, beginning of January. They like to dispose of their entire supply by May."

Once buyers realize there is no more coming from the CCC the price should increase. However, with 1985 oil still around prices probably won't skyrocket. "Buyers won't pay too high a price and sellers probably won't want to sit on the peanuts with some of last year's stuff still around, but the price will

LATEST SPOT PRICES

MARKET CLOSE DEC. 26, 1986

CRUDE VEGETABLE OILS	
Coconut oil, NY	lb, .20
Corn oil, Midwest	lb. NA
Palm oil, NY	lb25
regilul till, 200 maaat (roaldoted)	IL 00
Soybean oil, Decatur	lb151/a

REFD. VEGETABLE OILS otionseed oli, jumbo tanke, NY Peanut oli, jumbo tanke, NY Boybean salad oli, NY

OILMEALS

Coltonseed, 14% bulk, Memphis......ton \$155 Linseed, extracted, 34% bulk, Fargo.....ton \$110 Peanut, 50% bulk, 8E, Alabama......ton \$176 Soybean, unrest, 44% bulk, Decaturton \$142.90

FATS & GREASES Gresse, white, choice, tanks, divd., NY... ib. .13 Gresse, yellow maximum 10%, ifs tanks... ib. .1114 Lard, loose, bulk tanks, divd., Chicago . . ib. .141/2 Tallow, Inedible, lancy, tanks, divd., NY... ib. .141/2 Tallow, inedible, blch., tanks, divd., NY... ib. .141/2

VEGETABLE OILS

OLIVE OIL — Italian B olive oil is seek costs. dropped to \$5.35 per gallon in drums after 101 pricing until the second half of remaining fairly steady during the months after 101 pricing until the second half of October and November at \$5.40 to \$5.50. The fafficulty in getting prices up. "he says, per pound in gallon drums and holder,"

The use of chemicals in extracting the Boll meets look ahead with considerable has been prohibited, forcing producers to be in the coming years. The chiphoard peatedly press the olives to get the oil. The market, in which MIII can replace method may be tedious but it is less expensional dehyde, reportedly has been a stant outlet in Europe during the

PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

Corn oil, Midwest, ¾c. per pound Scybean, 44% bulk, Decatur, \$4.10 per ton Soybean oil, Decatur, 1c. per pound.

CHANGES/DOWN

Coconut oil, NY, V2c. per lb, Cottonseed, 41% bulk, Memphis, \$6 per ton Peanut oil, Southeast (restricted), V2c. per lb.

OILS, FATS INDEX

The Oils. Fats & Waxes index reflects the prices of 11 representative materials in this sector and the quantity of each produced in 1985. 151.85 Buill the beginning of the next Dec. 26, 1986.

Dec. 19, 1986 80.75 MENOL-A — Shell Chemical Com-Nov. 28, 1986 89.83 Japhis increasing its selling prices by Dec. 27, 1985 ..

Chemical Prices Start on Page 24

sive and produces different grades of oil in his reported previously that Aristech cach press. The first pressing produces top his Corporation and Dow Chemical grade virgin oil the second is a lower grade. grade virgin oil, the second is a lower grade and the third is lower yet. N-Atrader described the market last

State Most producers have scheduled LARD - Lard was trading at 141/1c. per pound toward the end of last week, rising i in the past three weeks.

Million a mid-month level of 98c, per Sources attribue this to a high export rate Sources attribue this to a nign experience of some a minimum on the level of 98c, per with hog slaughters on the down side. "If the last added of will announce its Janukill is light then there is less lard produced. Ricellis week. says a source, "Usually the kill is heavier. Note the street as well last week, and The sluck has boosted the price."

A health conscious public has become creasingly aware of its cholesterol intake, Applion. creasingly aware of its choice on taploston and fire at Petrofina Canada cousing many fast food chains to replace and taploston and fire at Petrofina Canada mal fat with vegetable shortenings. Now

being a big buyer.

TALLOW — The tallow market is currently up Ic. per pound, with inedible fancy rently up Ic. per pound, and inedible tanks priced at 14 /2c. per pound both based october. bleach tanks at 14 / c. per pound, both bas

on New York delivery.
Suppliers report a fairly high de tight supply. "Around Christmas people us ally eat more turkey than beef, says source. "This lessens the slaughtering of c tle and naturally cuts down on the amoun tallow produced."

With palm oil now between 1 %c. to 1 per pound higher than tallow and with high price of coconut oil, buyers are turn to tallow to tallow once again. Egypt purchase large supply of tallow a few weeks ago, ing a large chunk out of the current s and consequently affecting the price Ins tion, exporters who oversold two and the months ago, based on high production le at the time, are coming into the mark cover the sales in a period of slack production

Sources report the market on the firm and holding steady.

ROMATIC ORGANICS

and is "just beginning to eatch on

other comments that this market,

a blue embryo stages," could become

inflor-pound-per-year North Ameri-

mand Mobay Chemical Corporation

by are looking at it with interest, alalissid that "there are a lot of prob-

by believed out," including a need for

abrestable timber and concern over

Sandural RIM market, a promising

Extrapplication, has not fared as well

Zabidhoned carlier this year. General

blue leveled off during the year, and

many has reportedly delayed its in-

destomers and February 1 for con-

As relatively quiet," as most activity

with involve "the logistics of getting

all moved before the end of the year."

the benzene quote of \$1.15 was given.

Modraet pricing to Increase to \$1.10 on

addler MDI in the forseeable future.

r'ayrone producer.

baddywood expenses RIMMARKET

BTX at the site, says it hopes to resume production at the first of the year. CRESOLS -- PMC Specialties Group, Inc.

La 1987 as a pass-along of higher says it is increasing para-cresol pricing by he per pound, effective January L. The price in bulk quantities rises to \$1.05; in drums, truckload quantities, minimum 24,000 pounds, the price increases to \$1.10

PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

AROMATICS INDEX

The Aromatic Organics Index reflects the prices of 14 representative materials in this sector and the quantity of each produced in 1985.

, Dec. 26, 1986		167.84
Dec. 19, 1986	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	167.84
Dec. 27, 1985		167.84

Chemical Prices Start on Page 24

per pound; for less-than-truckload drum shipasles of its "Flero" line of cars are ments, the price moves to \$1.15 per pound.

Bulk and truckload shipments are priced Mittoduction of some comparable f.o.b. Chicago plant with minimum freight prepaid and allowed to US destinations East the Rocky Mountains. For destinations West, the price is 5c. per pound higher. Lessthan-truckload shipments are priced f.o.b. Chicago, freight collect. Terms are net thirty pound, effective January 1 for non-

An industry source comments that PMC's move is "a continuation of a general trend" toward higher pricing in recent months. The two other US suppliers, Merichem Company and Biddle Sawyer Corporation, which distributes for Synthetic Chemicals Limited of the UK, raised prices in October.

This source says there has been some tightness in the market lately, attributable at least in part to one company's production difficulties in November.

PHTHALIC ANHYDRIDE — Heavy export business, predominantly to the Far East, has been recorded since August. For the three-month period ending October 31, 16 million pounds of material were exported, compared with 3.7 million pounds for the And at 78c, per gallon. Xylene pricing previous seven months of the year, and 13 million pounds for all of 1985.

Should the recent export pattern continue, and producers expect it to last into the first

mal fat with vegetable shortenings most of the lard is exported, with Mexico most of the lard is exported, with Mexico

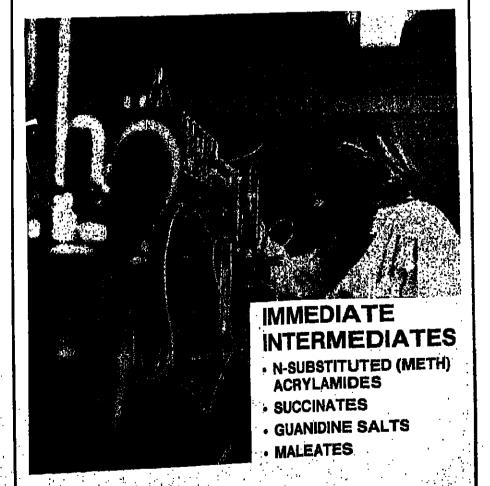
le :			SEPTEM	BER
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Ciple Its.	QUANTITY	\$ VALUE	69,793	294,527
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al State Gol	19,433	18,872	9,234,128	1,166,559
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de had sanivatives	298,776	227,972	3,326,957	503,714
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gal	2.072,643	2.054,763	2,457,328	6,562,442
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December 29/1986 CHENICAL MARKETING REPORTER





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AROMATICS

quarter of 1987, export demand in 1986 would be two and one-half times greater than 1985, and would account for a 2.1 percent ncrease in overall production for the year.

Reflecting relatively steady domestic business, total production through the first nine months of the year was 3 percent ahead of last year's pace, and producers say they expect the growth rate for the year will range between 3 and 4 percent.

Producers say that demand could tail off next year and return to 1985 levels. It is pelieved that new tax laws may curtail demand in the commercial real estate, automobile, and leisure vehicle markets. In addition, it is noted that automobile makers made wide use of sales incentives in 1986 that may ot be repeated next year.

Nonetheless, market pricing has been firm recently, producers say, and the eliminating of competitive allowances has been taking

PARADICHLOROBENZENE •

ice. "This has been the calmest annuals tract negotiation (period) in years," or ments one producer, since "suppliers

January.
TOLUENEDIAMINE — Air Products
Chemicals, Inc. will increase the list price of later separating out the market have chases will be 70 cents per pound, f.o.b.
Pasadena, Texas; the new list price for truck load drum orders will be 79c. per pound, f.o.b.
Houston, Texas.

The price increase is the float truck load of the production process cuts down on diethylene glycol output. This involves the additional expense of later separating out the water from the glycol mixture, but lower energy costs have made this more acceptable over the past two years.

Current market pricing is in the mid-teens, sources say, creating a situation in which it is

PRICES TRENDLINES

The price increase is the first for m toluenediamine since July 1984.

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CHLOROBENZENES

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sold out." Market tightness is said to be to lated to widespread downtime in the industry lated to second half of the year. Producers and a major the year.

during the second half of the year. Producers say a major concern of their is rising feedstock orthoxylene costs. In October, when phthalic pricing was last increased, orthoxylene was priced between EG Price Hike Slated 12% c. and 13c. per pound. Pricing in December has been reported at 13% c. per pound. Pricing in December has been reported at 13% c. per pound. And orthoxylene producers are said to be admining for a Wic. to 1c. per pound increase for January. Most Major Producers Water ratio in the production in the production of the producti

resomers that as of Jan. 1, diethylene pices will be raised 2c. per pound. incesse effective Jan. 1 for contract in and Dec. 1 for buyers in the spot Other major producers, including ald to be supporting the industry-

hrimary reason given for the price miletight supply situation facing the military the market for co-product

se gived is also snug, that of di-period is tighter yet.

Shows for the tightness are unclear,

Shows the various possibilities for the distancity. "With ethylene glycol mailes as high as they are, there mule supply of diethylene glycol," Entirther points out that one of the wes, triethylene glycol, is seeing med, due to relatively slow gas pro-You would think that this would windlethylene glycol availabil-

END USE STRENGTH

Halues, though, are enjoying a good hudproduct that is seeing a strong smifreeze. "This season started kitikas caught up to previous years," **Midskry source.** Anti-freeze demand authe gangbusters in November." Moler, who notes that whether or not

by well this year, accounting for idelhylene glycol disappearance. And demand areas this year include

deeriorating prices over the past d production. Although it is a co- and Northwest, 28% c. d thylene glycol, increasing the

PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

ALIPHATICS INDEX

The Aliphatic Organics Index reflects the prices of 20 representative materials in this sector and the quantity of each produced in 1985.

Dec. 26, 1986 222.80 Dec. 18, 1986 222,80 Nov. 28, 1986. 222.80 Dec. 27, 1985 222.80

Chemical Prices Start on Page 26

more profitable to export the material than to sell it domestically, they add.

HEXADECENYLSUCCINIC ANHY-DRIDE - The Humphrey Chemical Company has announced that it is raising the transaction price on its hexadecenylsuccinic anhydride by 11c. per kilogram, effective for shipments made on Jan. 15. The price like integrence of fill-in orders for Jan- applies to the company's synthetic paper size maken the severity of the weather grade material. Humphrey indicates in-terms the strength of demand this sea-ereased production costs as the motivator for the increase. Another supplier is said to be planning a price like as well, citing an inad be sing supply of both ethylene crease in pricing of hexadecene, a raw material for the anhydride.

METHYL ETHYL KETONE — Shell

Chemical Company has announced a price decrease of 1c. per pound on methyl ethyl ketone. The price move, offective Dec. 18, ding, spurred by a strong build-will bring the now per-pound delivered prices, by zone, as follows: Newark, 23c.; Northwest, 24c.; Southwest, 26c.; Mid-Contirears have led some producers to nent, 25c.; Southwest, 23½c.; West, 25½c.;

The price decrease is described by Shell as

Ethylene Carbonate Propylene Carbonate

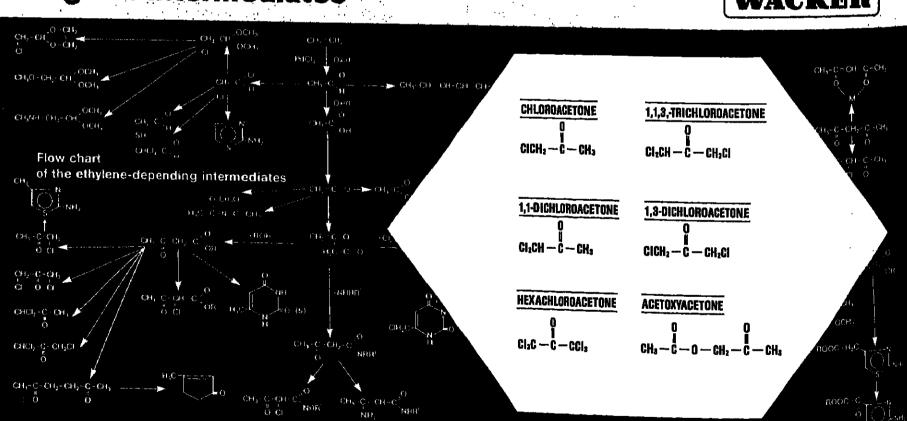
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AND THE RESERVE

WHATIC ORGANIC EXPORTS: OCTOBER

MANOF CENSUS FIGURES IN POUNDS ON THE KEY ALIPHATICS

% (dd	QUANTITY	\$ VALUE	12.864.685	1,286,077	
165	1,633,403 1,747,211	412,868 628,265	1.992,429	565,661	
Shelate the same of the same o	81.527.183	18.218.245	78,799,461	17,952,481	
A. Table 14 annual Control of the Co	5,048,972	2,341,717	8,219,396	3,530,881	
to a	28,667,626	3,327,254	13,060,939	2,550,170	
House be	6,102,903	1,305,543	11,125,548	2,234,188 1,174,910	
Man ." " Idupara.	4,232,028	1,216,181	4,789,951 3,390,136	2,065,648	SUPER DIGLYME
Hydrocarbons IDS.	1,053,396	514,334 949,466	19,354,416	2,642,533	
Michael Phopping	4,318,869 18,222,051	4.270.018	18,904,732	4,883,247	
Hilbert	6.808.726	2,250,641	5,662,048	1,288,544	
Marie Marie and a second	704.399	1,137,522	66,223	168,013	SPC's E-141
September of the control of the cont	18,701,719	1,892,285	2,265,202	205,453 6,992,953	0 C O E-1-1
Mary Continues of	47,387,663	7,471,627	45,200,357 1,249,065	225,495	
- Jain 18)************************************	991,428	140,631	502.971	522,860	
We standed to the standard of	272,608	105,581	1.134.269	1, 185,586	Com the Ether Europte
	801,952 4,863,310	2,485,820	4.244,803	2,520,810	Now at the lowest price in the industry from the Ether Experts
The state of the s	483,219	298,947	3,475,083	929,149	MDA at the lancer bear
Maria Chloride	3.666.806	1,853,939	8,439,975	1,689,364 2,171,839	
	6,780,784	2,834,302	5,421,881	1,724,765	
byte Chloride bs. byte Chloride bs. identified bs.	5,268,260	1,392,227	10,372,033	240,388	SpecialtyChem 14
Prophers (Incol.	4,154,227	548,488 462,198	777.031	584,389	Casala Un Charte 1
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	1,798,814	3,228,807	6,106,080	1,878,109, 9,000,085	Section Chem Products Cornoration
in Olde	3,003,422	1,553,702	22,943,407	1,367,264	1. Lot 1. Lot 1. Line Law Chambaging Group 1 We also be 1. Lot 1.
Control of the Contro	3,912,411	837,948	B,000,173	13.259.263	Merinette, WI 64143, (715) 735-9033
ingenten eine den eine ber bei ber bei	39,466,823	7,695,769	44, 162,287	14,911,43	10 1 M 18 M 1 M 2 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1
Anderenten ber bei 100'	120,072,259	18,030,000	The second	5 ·	December 29 1986 CHEMICAL MARKETING REPORTER
			1370.75	St. 1 19.73 14.44	December 29, 1986 CHEMICAL MARKETING RESPONSES
the second second second			سفعان أأرادا	11 3 74 5 64	Total of the second sec
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ALIPHATICS

Market sources complain of tight supplies brought about by operating problems at a number of plants in both the US and Europe.

Also, strong supply relative to demand in appears to have levelled off recent years softened pricing. The price appears to have levelled off says moves by Celanese and Exxon are said to be attempts to correct pricing in light a few "right now, we are looking attempts to correct pricing in light a few "right now, we are looking attempts to correct pricing in light a few "right now, we are looking attempts to correct pricing in light a few "right now, we are looking attempts to correct pricing in light a few "right now, we are looking attempts to correct pricing in light a few a year and a half, which saw that also the for 2,000 pounds and quantities less than that also the forb.

Seventy percent aqueous choline chloride is more available." says attempts to correct pricing in light a few a year and a half, which saw that also the forb.

Seventy percent aqueous choline chloride is more available," says attempts to correct pricing in light a few and a half, which saw that also the forb.

Seventy percent aqueous choline chloride is more available," says attempts to correct pricing in light a year and a half, which saw that also the forb.

Seventy percent aqueous choline chloride is more available, and the few are looking attempts to correct pricing in light a year and a half, which saw that also the forb.

Seventy percent aqueous choline chloride is more available, and the few are looking attempts and the few are looking attempts. attempts to correct pricing in light of cm. Fright now, we are looking rently snug supplies.

Advanced Materials

Continued from Page 5

while other firms will become more receptive to hybrid fabrics and three-dimensional woven fabrics in such shapes as I-beams and

"Advanced materials will be pervasive throughout the whole industry changing the way people do things,"Mr. Commins predicts. At the same time, according to the report new production techniques will revolutionize

the advanced composite industry. High-performance, thermoplastic-resin systems, for example, promise to cut fabrication time and waste, while improving part-to-part consistency and performance. The same goes for improved automated equip-ment, such as filament winders and pultrulers. New, low-cost raw materials, and advanced agents to bond (ibers and resins, will create stronger and more durable com-

The advanced composites group, according to the report, shows the following charac-

• 56 percent are privately-held. The remainder are subsidiaries or divisions of other

 Sales of these 50 US manufacturers accounted for 55 percent of the entire US market for advanced composites. These firms range in size of sales (based on 1985 figures) from 2 million to \$232 million.

 Most firms projected an average 23 percent increase in sales for 1986 over 1985.

 Sales of the 50 US manufacturers were mostly to the aircraft and aerospace industry. Other industries include automotive, electrical/electronic, military, marine, medical and recreational.

 International sales accounted for an average 9 percent of the total revenues of the 50 manufacturers. Thirteen firms had no inter-

Over the past year at least eight composites firms were absorbed by larger companies. Among the buyers were such big league players as E.I. du Pont de Nemours de Co., B.F. Goodrich Company, BASF Corporation and Amoco Corporation.

"As this market grows, it might well be survival of the fittest," Mr. Commins says.

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Chemicals Division

an attempt to keep posted prices in line with effective market prices; additionally, the company says it is seeking to establish realls. RUGS & FINE CHEMICALS

company says it is seeking to establish realls tic zone-delivered prices. This move is in contrast to a price incresse of 1c. per pound announced earlier this month by Celanese. Also, Exxon announced that effective Jan. 1 it would remove the laper pound competitive allowance that it had placed on methyl ethyl ketone. Market sources complain of tight supplies.

all the market is termed "normal" by in sources, with no new applications as opening up in the immediate future pristequate," says one producer, "we producer in meeting the demands of namers." For 1987, there is general muthat the year will bring only int-

shorkes have been stable during the geal months. Current list prices are 1641.13 per pound for the technical #Bper pound for the pharmaceuti-始md\$1.18 to \$1.25 per pound for the tigide. There may be slight waria-Aboding on the quantities ordered power offers a pesticide-free, highunbriree product of "good color" for illus per pound. According to one numbers a growing interest in post-

amesays that there is "a craze back almoducts," and predicts a Trebuth A1" hakin care products MOPFOR WOOL GREASE

(Meent, yearly consumption of Immolin stated between 10 and 15 million fob ্রান্ত্র same sources put the figure Jul(million pounds. respition of landlin derivatives is

hslimated at 2 to 3 million pounds 哪hding of the derivatives is closely व्यक्षिक्षातिक of lanolin. Prentite prices of wood grease, lane-

Familerial, are quoted at around 50 to eground. Several sources mention alog in the prices for wool grease. that prices may level off in the 45 Reduring the coming year. A year bullago, wool grease was priced at 28

and of over 5 million pounds of wool apported into the US. The figure for illadion and for 1984 it was 5 million A from this total, to date, Australia illon pounds of wool grease into 1996, down from 3 million pounds in Australia exported 2 million

MECHLORIDE - Syntex Inc. will

hapices will be as follows: 50 perhe is 36c. per pound, bulk, in tag and hopper trucks. Bagged

PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

DRUGS INDEX

The Drugs & Fine Chemicals index reflects the prices of 10 representative materials in this sector and the quantity of each produced in 1985.

	27, 1985	
	. 19, 1986 . 28, 1986	
Dec.	26, 1986	211.16

10,000 pounds, 43c, per pound for 5,000 pounds, and 44c, per pound for 2,000 pounds Less than 2,000 pounds cost 44c, per pound,

For both grades the company indicates forb freight allowed on 2,000 pounds or more Less than 2,000 pounds, f.o.b. plant or warehouse. For shipments West of the continental divide 4c. per pound is added.

Syntex is following the lead of Nutrius Inc. and Chinook Chemicals, the Canadian producer of the product, who announced similar price likes earlier this month (CMR, 12/8/ 86, p. 22).

Choline chloride is termed as "moving well" by industry sources. The market is recerving considerable support as result of the expansion in the poultry industry.

BOTANICALS

KARAYA GUM -- Buyers for this gum are said to be waiting while efforts by the Indian government to establish floor prices for this product are under way. "The market is very quiet" says one buyer of the crude product, with virtually no recent offerings."

According to industry sources, NAIFED, the National Agricultural Cooperative Marketing Federation of India, Ltd., alms to raise present karaya gum prices by about 16 percent. At present, prices quoted to importers of the crude are at \$130 for 50 kilos for the per pound for 40,000 pounds, number one product and \$120 for 50 kilos for pounds, 39c. for 5,000 pounds, the number two variety. Prices for the fin-

MG & FINE CHEMICAL EXPORTS: OCTOBER

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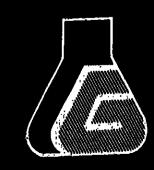
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December 29, 1988 ... THE MICAL MARKETING REPORTER 15

CUSTOM CHEMICALS — A Question of Competence

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DRUGS & FINE CHEMS

ished powdered gum range between \$2.50 and \$1.65 per pound, depending on quality.

According to one source, meetings are being held for the purpose of establishing effective controls at the auctions where the raw gum is offered by individual collectors. As a result, the situation is described as "very

confusing" with no offerings being made.

Bureau of Census figures reflect the market situation, showing a decline in the amount of gum that has come in to the US this year. During the first ten months of 1986 only 2,394,903 pounds came here, in contrast to 3,354,899 for the same time in 1985.

LOCUST BEAN GUM - Prices for this gum have levelled off during the last few months. They have dropped from their previ-ous highs in 1985, when locust bean gum demanded between \$6.00 and \$6.75 per pound, more than double the price of \$2.50 in 1984, but are still above normal levels.

Presently, prices for locust bean gum are quoted at \$4.75 to \$5 per pound, depending quality. Industry sources expect a slight drop page 4 in price of about 5 percent for the coming year. At present there are isolated quotes for bean gum at \$4.50 and even below \$4. But at one source explains, this might be for a lower-quality product, adding that a specifies, high-quality gum is required by most in 1975. The agency reached a settlement is a specific to the source of the set in 1978. The agency reached a settlement is a specific to the set in 1978.

buying going on right now." This drop in de-mand is blamed on the combination of higher prices for the product and a weakened dollar. I termite control by way of underground mand is blamed on the combination of higher prices for the product and a weakened dollar.

The new crop is in and is termed good by one source. End users are said to be preparing to place their orders for the prime season coming up in March through June, when ice is It was banned in 1972 because of its cream producers are getting ready for the ked chain and because of its adverse

Imports are up for the first 10 months of 1986. Through October 4,247,606 pounds came into the US, as compared to 3,845,677 pounds through October in 1985.

DYESTUFFS - Acid, Basic, Direct, Fast Bases, Napthois, Reactive, Solvent

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by one source, adding that "there is not much the chemical, except for termite control, buying going on right now" This is the chemical, except for termite control,

MT was formerly used throughout the US moter linsects on crops and around the ris on the environment, particularly the live effects on fish and fish-cating

rin and dieldrin are also insecticides were widely used through the agriculalindustry before they were banned by him 1975 on the basis of their risk to Mic health and the environment. Both picts are persistent in the environment items cancer in animals, according to the

Methylene Chloride

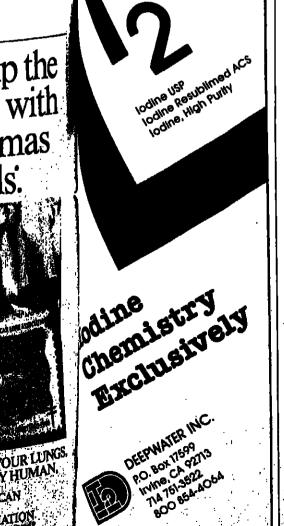
binued from Page 7

hir an emergency standard, "We have and action by some employers to substiademicals and reduce exposures, but mwill never be full protection until we uslandard that reduces exposures to the satisfactors."

I denying the petition, OSHA said that was!" rulemaking would begin on white chloride. The agency noted that within one million workers are exposed क्षेष्पित chemical, widely used as a sol-विकासिकारिक processes, food prepara-

and agriculture.
"MA says there is "sufficient evidence" toethylene chloride can cause cancer in ાત્રોજાટી species, but it maintains that huutudies are inconclusive on whether extrio the chemical is harmful.

texisting OSHA exposure limit is 500 melhylene chloride per million parts level the union feels is too high. UAW



says it should be reduced to the lowest feasible level.

Last May, the American Conference of Government Industrial Hygienists changed its recommended threshold limit from 100

'Bendectin' Award Continued from Page 5

and in the other the jury was unable to reach

the plaintiff. However, the trial judge over-ruled the jury's verdict on the basis the evidence presented was not sufficient to prove "Bendectin" was the cause of the child's birth defects. In 1986, a court of appeals overturned the trial judge's ruling and restored the original jury verdict. Merrell Dow has filed a petition for a rehearing of the case by the Court of Appeals which is currently pend-

Two court decisions have been rendered in cases outside the United States. Both were awarded in favor of Merrell Dow's West Germany subsidiary in January, 1986.

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CHEMICAL MARKETING REPORTER

Chemical Finance

Crompton & Knowles Corporation has sold off most of its Kem cleaning, maintenance and water-treatment chemical operations in two separate transactions. As a resolute divestment and negotiations to sell the remaining portion of the Kem busines, is company says it will take a charge of \$7.7 million against 1986 earnings.

Kem accounted for about \$27 million or 14 percent of the company's \$186 million als in the first nine months of this year. Although the foreign portion of the business harban period of consolidation in some of its profitable, the US business has operated at a loss for several years, Crompton & Rose | parkets and growing in others, but

Ays.

Vincent A. Calarco, chairman, president and chief executive officer of the company. said in making the announcement that despite the \$7.7 million one-time charge in expect to report 1986 as a profitable year" based on the performance of confine

According to Mr. Calarco, the divestment was made because "Kem didn't flow corporate strategy of operating specialty businesses which permit long-term different tion of products and services to the customer."

For the latest nine months, C&K reported record earnings of \$6.4 million, or \$1.8 m share, based on sales of \$186 million. For the same period of 1985, the companying were \$174 million, with earnings of \$5.3 million, or \$1.52 per share,

Phelps Dodge Completes Acquisition

Phelps Dodge Corporation has completed its acquisition of Columbian Chambel Company for approximately \$250 million. Columbian Chemicals, headquartered in Atlanta, Ga., operates five carbon black plants and two iron oxide plants in the Usan, through subsidiaries, six carbon black plants in the UK, Canada, Germany, Italy and the Philippines. For the nine-month period ending September 30, 1986, the company as income was \$19.8 million, on sales of \$230 million.

For Phelps Dodge, which lays claim to being the nation's largest copper produce, will earnings of \$50.6 million and sales of \$639.7 million during the first nine months of William acquisition reflects its announced intent to diversify into one or more additional but

The purchase price was made up of \$60 million of Phelps Dodge internally general funds, \$180 million of bank debt financing arranged by Morgan Guaranty Trust Compa and about \$10 million of assumed debt, net of cash on hand, the company says.

Columbian Chemicals will continue to be operated by its current management, healst by Alan Burkart, president and chief operating officer. Ladislaus von Hoffmann, chur man of the board, and Kurt Eckrich, a director of Columbian Chemicals, have resigned their positions, but will remain with the company as consultants, Phelps Dodgesays

Sterling Drug Acquires Three

Two European over-the-counter pharmaceutical companies with combined sales close to \$30 million have been acquired by Sterling Drug Inc. and, in a separate transaction, Sterling has acquired Woodroof Laboratories, Inc., a Santa Ana, Calif-bash producer and marketer of a patented synthetic wound-care product.

John M. Pietruski, Sterling chairman and chief executive officer, says the European acquisitions — Laboratories Valda, a family-owned company in Paris, with manufactur ing facilities in France and Italy, and Laboratoire du Docteur Furt, based in Borden "are important steps in Sterling's stated goal to strengthen the company's present these two key markets."

According to Sterling, Valda lozenges are sold in France and Italy and have single export sales and the company also makes and markets medicated gums. Furt products and markets products in the laxative category and its product line also include the products and diet aids.

Woodroof Laboratories makes and markets "Biobrane" biosynthetic bura wo dressing, which eliminates the need for painful dressing changes during the selling process since it permits viewing of the wound and penetration of topical antibacterist.

The product will be marketed by Winthrop-Breon Laboratories, Sterling's donests. prescription medicines marketing division. Terms of the cash purchase were an in

Koppers Purchases Operation of ICI Americas

Koppers Company has purchased the "Atlac" specialty thermoset resins business ICI Americas Inc. for an undisclosed price, corrosion and flame-related the esters binders toward a language of the corresponding towards and the corresponding to the corresponding towards and the c esters, binders, toners and ITP molding resins. The sale includes commercial knowledge customer lists, trademarks, manufacturing know-how and patents.

Dr. Alonzo Wm. Lawrence, sector vice-president, notes that the resins will expansion of the control of the cont Koppers' existing "Dion" value-added resins business.

Expansion of the specialty polyester resin line is part of a Koppers strategy to fore perations on its strongest business. operations on its strongest businesses — chemicals and construction materials as services. During 1986, the company completed sales of most of the ten businesses to company said it would discontinuous said it would discontinuous. company said it would divest and formed a \$200 joint venture in the constraint materials and services sector.

hemical Financial Briefs

Amoco Corporation has approved a 1987 capital and exploration budget hillion, essentially unchanged from \$3.28 billion this year. The company knocked its '86 spending target to about \$3.5 billion from the original \$5 billion due to drop in oil and gas prices drop in oil and gas prices.

Unilever United States, Inc., has received early termination of the walling pend under the Hart-Scott-Rodino act in connection with its merger agreement with the brough-Ponds, Inc. and expects to complete the merger this Wednesday (December II) brough-Ponds, Inc. and expects to complete the merger this Wednesday (December II) brough-Ponds, Inc. and expects to complete the merger this Wednesday (December II) brough-Ponds, Inc. and expects to complete the merger this Wednesday (December II) brough Ponds a previously anomaly senior revolving credit agreement with 21 banks providing up to \$3 billion for land ments in or acquisitions of businesses or companies, although no particular inventors. acquisition has been identified.

Squibb Corporation, Princeton, N.J., has declared a special dividend of one stock of Westmark International Incorporated the holding common stock held by medical equipment business for each five starts.

common stock held by shareholders on December 31.

Cooper Vision, Inc. has reached an agreement in principle to sell its optopic vision, Inc. has reached an agreement in principle to sell its optopic vision, in cash hareholders of the cash hareholders of the cash hareholders. in cash before the end of the year.

HEAVY & AG CHEMICALS

The charge will take account of an accumulated foreign currency translation adjustment of \$7.1 million related to Kem's international operations. The remaining #M/M Face a Mostly Soft Market

werall, producers face significant overcapacity.

Domestic production this year is projected

hregister 188,000 tons, virtually unchanged tom last year, while industry capacity totals 10,000 tons.

Pricing in the industry is soft, with list pires quoted at \$175 per ton on the East coast and \$230 per ton in the West and Midrest. Sources say Midwest prices are being

Seventy-five percent of domestic output is sed as a flocculant in the treatment of mage. US demand for the sewage grade mierial is seen to be generally flat, with writer strength being lost to the gains of physicarchystes and water soluble polymers. So this is not the situation in the West, especially in the Self-section. dily in California.

With its ability to bind sulfur in an insoluthe complex, ferric chloride is extremely selul to California's sewage treatment fadities, many of which are situated in popuas areas and from which the emission of

bdrogen sulfide is a serious problem. Moreover, some of these facilities burn tersludge in digesters, and the addition of tric chloride to the sludge helps them meet difornia's stringent environmental regulawas by keeping the release of sulfur dioxide

With Western demand for ferric chloride tiong — Los Angeles, for example, is seek-kbids for an additional 17,000 tons per year -producers there remain bullish. One of the legest among them, Imperial West, doubled apacity early in 1986.

MARKET TO DECLINE

The Northeastern and Midwestern marbis for sewage grade ferric, however, are specied to decline at a rate of 3 percent per lar, Producers in these regions that are oprating at full capacity appear to be using meet their output captively or are supplying steel producers KA Steel Chemicals has bilt a new plant in Dravosburg, Pa., on the poperty of, and in order to supply, USX, thich is in the midst of a strike. Producers ki make primarily sewage grade material Resaid to be operating at significantly less hanfull capacity.

litigating the slump in US sewage grade is le strength that ferric chloride has demontated in potable water tratment, representit is percent of its total use. Demand for bric chloride in water treatment plants is apected to grow at 5 percent per year arough the rest of the decade.
The plants use ferric to clarify and floccu-

he water, but it has gained additional favor kisability to maintain proper pH balance. Moreover, ferric chloride may gain a new Wantage over its main competitor in water hatment, aluminum sulfate, if the EPA buld issue guidelines for residual aluminum. No such regulations are presently

server suggests they may be in a few years.

One producer that is entering the Canadian one producer that is entering the Canadian market and will be promoting ferric chloride for water as well as sewage treatment is C-I-L, which is building a facility in East Montreal with a capacity of 40,000 metric tons. The plant is scheduled to be completed in June of 1987 and it is being built primarily to supply the product of Montreal and conjugate to supply the needs of Montreal and environs, but a spokesman says the company hopes to market ferric chloride throughout Quebec

PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

HEAVY & AG INDEX

The Heavy & Ag Chemicals Index reflects the prices of 18 representative materials in this sector and the quantity of each produced in 1985.

Dec.	27, 1985 Chemical Prices Start on Page	
	28, 1986	
Dec.	19, 1986	113.69
Dec.	26, 1986	113.69

and penetrate the Canadian pulp and paper mill market. Any possibility of entering US markets, were it to come, would be years away, the company says.

An industry source points out that, "ten years ago, ferric chloride sold itself, but it has to be marketed aggressively in the present-day market."

BASES & SALTS

CAUSTIC SODA - Holtrachem, Inc., a major distributor of caustic soda, has announced an increase in the price of its caustic soda solution, effective immediately and as contracts permit, on a case-by-case basis.

The company notes that the unfavorable balance of caustic soda and chlorine, which resulted in the only mixed success of the industry's October 1 increase, no longer pre-

The company adds that chloralkali operating rates are considerably higher than a year ago, due to rationalization, but that there is no likelihood of a supply shortage in 1987. Holtrachem does expect a higher price for the ECU in 1987, but does not know by how much or whether it will tend to affect chlorine or caustic soda.

SODIUM CHLORIDE — International Salt Company has announced price increases on its evaporated and rock salt products, effective with orders and shipments on and after January 26, 1987.

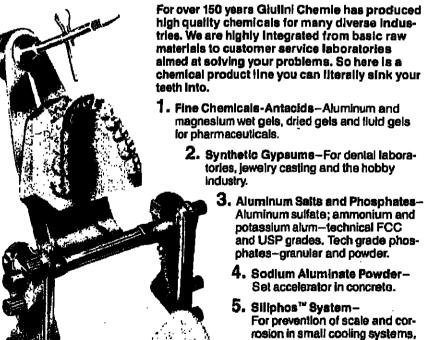
According to the company, the increases

NORGANIC CHEMICAL OUTPUT: SEPTEMBER

ELECTED FIGURES IN SHORT TONS FF	ROM THE CENS	SUS BURE	AU.
innum sulfate, commercial idium carbide, commercial idium properties, dibasic anhyd. idius phosphate, dibasic anhyd. idius phosphate, dibasic anhyd. idius eda, ifquid idius eda, ifquid idius, ifquid idius ecid idrochioric acid	SEPT. '86 110,403 18,202 49,535 18,641 947,693 877,271 693,178 233,571 16,443 13,304 28,244 2,741	AUG. 86 123,521 15,604 44,045 19,071 922,615 885,980 699,999 238,198 21,899 13,308 28,699 2,455 5,222	8EPT. '85 98,001 18,376 41,713 23,295 569,164 640,591 638,368 240,368 19,466 12,961 26,228 1,989 5,514
Gun sulfate, anhyd	4,990 57,474	4,957 60,727	5,235 68,806







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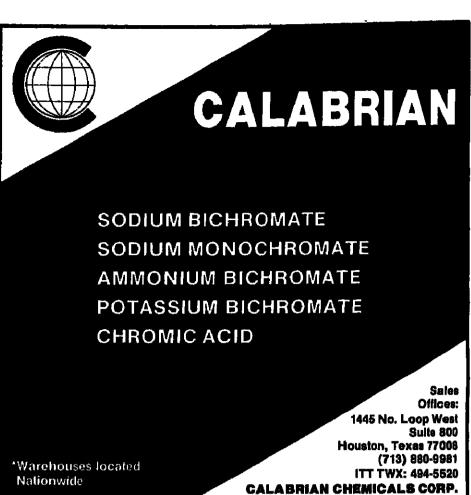
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/ .. CHEMICAL MARKETING REPORTER

BASF Corporation Chemicals Division

BASF

Continuing pressures on margins due to higher costs for labor, packaging materials and additives make the increase necessary, according to International Salt.

INDUSTRIAL ACIDS

SULFURIC ACID — Stauffer Chemical Company is raising its off-schedule pricing for sulfuric acid shipped from its Portland, Ore., Tacoma, Wash, and Dominguez and Martinez, Calif., facilities by \$5.35 per ton, 100 percent basis, not to exceed current schedule pricing, the increase is effective im-

On December 1, Stauffer raised the price of its Hammond, Ind., sulfuric by the same amount, adding their name to the growing number of producers that have recently raised prices for both the recovered and ele-

Their latest hike, however, falls in line with General Chemical's recent increase. Whether this represents the start of a Farwestern trend for 1987, and whether such a trend would affect the price of recovered as well as elemental sulfuric, remains to be

METALS AND MINERALS

COBALT - Zaire and Zambia have reportedly agreed to establish a uniform price or cobalt at \$7.00 per pound. The November 20 agreement was intended to stabilize the cobalt market and the price has held to date, though its future is open to question.

One source feels that demand for cobalt is strong enough to keep its price at or near \$7.00, but he adds that demand will probably have to rise to sustain the price through all of 1987. According to the Bureau of Mines, demand was 19 percent higher in September than in August, but cobalt's price at the time was \$6.00-\$6.40.

The success of the \$7.00 figure, however, will depend on cooperation between Zambia and Zaire as well as on demand. In the Spring of 1984, the two countries, whose combined production of cobalt accounts for 60 percent of the world's total, established a price of \$11.70; but the price collapsed when Zambla reportedly undercut its partner, initiating a price war that drove the price of cobalt to its

If Zambia and Zaire succeed in honoring their latest agreement, a factor in favor of the \$7.00 figure is its reasonable level. According to industry sources, \$7.00 is higher enough to encourage production, assuming demand remains healthy, but it is not so high that a repetition of price wars is as-

lighter weight, accuracy and range of measurement, and resistance to shock, vibration

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HEAVY CHEMICALS

research in the US has addressed virtually potential fiber optic sensor applications

has established a theoretical basis for pract cal applications in many areas, most can practical US applications are still force on proximity, liquid level, temperature at

"In contrast," says IRD project manager Carole Keogh, "fiber optic sensor development in the UK and Canada is somethal

more diverse. In what appears to be them

fiber optics at extreme distances.

US for proximity sensors for factory autom-

tion, for temperature and level sensor h

military/aerospace markets, and for mo-

the development of new fiber optic sensors

for household and other consumer applica-

tions, as well as ongoing development of h

dustrial fiber optic sensors to replace on

Approximately 100 US manufacturers are

involved in the fiber optic sensor market,

according to the IRD report. Among thems-

ket leaders are Cardiovascular Devices, Ix.,

EOTec Corporation, Luxtron Corporation,

Honeywell's Micro Switch Division and

Many applications of the new fiber optic

sensors involve displacing older types of sen-

sors, but with few exceptions the traditional

"low-technology" sensor manufactures

have run into technological barriers to eary when they have looked at the fiber opticsen-

sor business. "The new sensor business is

dominated by small high-tech companies,

some of them started only a year or two ago,"

comments IRD's Keogh. The fragmented "niche" character of the maket has led by

some "nice profit margins," according to the

company's study, which does not predict any

sort of near-term shakeout. "But all thecon-

ditions are ripe for a wave of mergers and

Sodium Sulfide

(Drums or Bags)

Sodium

Hydrosulfide

Solution

(Tankcars or Tanktruck)

CHEMICAL PRODUC

CORPORATION

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acquisitions," points out Ms. Keogh.

Electro Fiberoptics Corporation.

ventional types, IRD says.

As for Japan, the current emphasis is a

electric sensors in medical marketa.

medical sensing.

average about 3 percent and will mean an advance of approximately 12c. per 80 pound bag and \$2 per bulk ton. In addition, discounts rom published f.o.b. plant prices will be cancelled, the company says.

mediately, or as allowed by contract.

Fiber Optic Sensors

Continued from Page 7

elimination of spark hazard, smaller size and

According to the study, while theoretical

COATINGS & PLASTICS

Du Pont Scores

sequence of market dynamics, those con advancement in fiber technology since tries have made considerable progressing nylon." To date, the company's investcommercial application of flow and pressure sensors and the development of remote p ment in this product has totalled over

The material, five times stronger than Recause of their reliance on offsbore of steel, is used mostly in composite structures markets as opposed to industrial markets n aerospace and industrial applications remore emphasis has been put on the develoquiring high strength. It is also used in rope ment of pressure and flow systems became they are vital in offshore operations and for and cable manufature, radial passenger tire and protective vests and garment applicaresolution of difficulties associated with tions, as well as a replacement for asbestos in gaskets and brake linings. On the other hand, demand is strong in the

In 1983, the US market for "Kevlar" moved from 15 million pounds to 17 million pounds. To meet this new demand, Du Pont increased production capacity at its Richmond Virginia plant from 15 million to 49 million pounds, at a cost of \$200 million. This capacity is expected to meet US domestic and export markets through the end of the

With presence established in both US and European markets, both producers are now

hoking to the Japanese market. In 1983, Du Pont started a joint venture with Toray Industries Inc. of Japan for the sale of "Kevlar" in Japan. The Du Pont-Toray Company currently imports polymer chips from the US, processing them for sale n Japan. By 1988, the company plans to have sproduction plant on line in Japan, with capacity "in excess of 6.6 million pounds,"

ffer expenditures totalling \$100 million. Akzo has also been active in the growing Japanese market. Enka and Sumitomo Chemical Company have recently agreed to form a joint venture, Nippon Aramid Yugen Kaisha, to market Enka's "Twaron" fibers in

JAPANESE MARKET STRONG

The venture predicts sales totalling 200 metric tons in Japan next year, and sees the market expanding tenfold by 1991. By that time, it plans to build a 2000 metric ton prodiction plant to process polymer, which it ill continue to import from Akzo.

Du Pont and Akzo are not the only produces strengthening their presence in Japan. lejin Ltd. has been marketing an aramid ber, "HM-50," similar to "Kevlar" but ased on a different process, for the past 4 years. The company started a 1.1 million pound per year production plant in Japan last

Teijin also markets, "Teijiconex," a polymer line similar to Du Pont's "Nomex." Together with Technora Ltd. of Japan, Teijin has announced plans to start marketing "Technora" a new line of aramid fibers, by the summer of 1987.

PLASTICS MATERIALS

ACRYLIC POLYMERS — Rohm and Rass Company will be raising prices for many of its acrylic acid based "Acrysol" wa-*-soluble polymers on January 1, the firm ^{nounced} last week.

The price increase, the first for the product market for the near future.

line, will raise prices for selected grades of the material from one cent per pound to ten cents per pound, depending on product. "Acrysol" polymers are used primarily in industrial water treatment, oil production,

mining and detergent applications. PHENOLIC RESINS - Schenectady chemicals will be raising prices for its lines of phenol and alkylphenol-based resins on

PRICES TRENDLINES

WEEK ENDING DEC. 26, 1986

CHANGES/UP

CHANGES/DOWN

COATINGS INDEX

The Coatings & Plastics Index reflects the prices of 13 representative materials in this sector and the quantity of each

	Che	micei i	Prices Start on Page 2	4
Dec.	27,	1985		306.4
Dec.	18,	1986	***************************************	306.4
Dec.	26,	1986	• • • • • • • • • • • • • • • • • • • •	306.4
p. 00.		· ·		

January 15, the company announced last

To date, BTL Specialty Resins and Borden Chemical Company have announced phenolic resin price for January, in response to higher

MISCELLANEOUS

ACTIVATED CARBON - Despite price increases this year, producers describe mar-ket pricing as "unsettled." Discounts are "all over the place" says one producer, giving ranges of 5 percent to 20 percent, off list

Overcapacity and a surge of cheaper imported substitutes, particularly coconut carbon from the Philippines, have been keeping prices low, producers say.

The market for activated carbon is described as mature. US demand is currently estimated to run between 190 million and 200 million pounds per year; flat to 1.5 percent annual growth is expected for the future.

Industry capacity, which had been around 400 million pounds per year for several years, was pruned considerably when Witco Corporation left the business. Westvaco Inc., another producer is said to have reduced capacity, putting some production lines on standby. Subsequent industry restructuring isa said to have reduced the figure to between 300 million and 330 million pounds. Even with this improvement, producers feel that overcapacity will continue to dominate the

COATING & PIGMENT EXPORTS: OCTOBER

BUREAU OF CENSUS FIGURES ON THE KEY PAINT MATERIALS.

1	SOMEAU OF CENSUS FIGURES ON	ОСТОВЕ		SEPTEM	3ER '86	
		QUANTITY	\$ VALUE	QUANTITY	\$ VALUE	
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1	l Taluun Dinok Inokudina ihaamal ika	8,890,070	4,186,939	9,185,898	5,942,056	
1	TO THE TRANSPORT OF THE TRANSPORT OF THE TRANSPORT OF THE TRASPORT OF THE TRANSPORT OF THE	489,674	746,443	522,825	683,036	
ł	I				004.000	
ł	C VOICENTRIBA Aleneralose	181,037	596,556	258,510	994,602	
i	1 '4110W INB.	128,293	613,044	108,030	284,887	
j	i rigu	92,854	892,66 0 .	50,719	522,084	
11	TIME INC.	38,443	526,208	4,194	66,416	
li		485,243	1,945,214	489,091	1,956,630	
IJ		1,048,009	4,208,202	777,638	2,797,191	
H		315,233	376,993	791,458	621,114	
U I		1,986,422	1,662,924	2,241,693	1,563,289 2,766,731	
		5,801,141	3,242,036	4,807,657	3,608	
1		60,606	12,000	12,201	247,361	
		1,294,370	424,692	797,963	14.753,766	
Ħ	Other phthalates	69,510,815	7,465,578	51,722,201	14,753,766	
	Titenium dioxideibe.	15,778,004	10,697,146	20,435,536	48,562	
	Zinc oxidesibs.	240,618	190,498	73,593	238,058	•
÷.	Zirconium oxide	225,310	310,389	96,926	* 200,000	•
ă.	(1) includes mixtures					_

Dane's Salt

DANE'S SALT OF

D(ALPHA) PHENYLGLYCINEPOTASSIUM ETHYL

Chemical Formula: C₁₄H₁₆O₄NK Molecular Weight: 301.3

Structural Formula:

Description: White solid powder

Melting Point: Above 220°C (with decomposition)

Assay (Purity): 98%-101% as C₁₄H₁₆ O₄NK

Water Content: (by K.F. Method)

Max. 0.5% w/w

20:-75° to -85° (C=2, 1NHCL)

20:+270° to+280° (C=0.5, Absolute Ethanol)

Suggested uses: As an intermediate in the synthesis of Semi-synthetic Penicillin-like Ampicillin.

Packing: 50 Kgs. in Fibre Drum with sealed plastic bags

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December 29,1986 CHEMICAL MARKETHYCHEPORTER



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with domestic manufacturer emat it's purely the dollar change against racies. One domestic distributor of havedepressed the market, keeping all indisays "low priced imports from

dar Indication of the current competidimate is the total import figure for triemusks. For 1985, a total of 819,977 ns were imported; through October, 31140,373 pounds have been brought becoming. That such large quantities, Satests to the drive to sell material 2 (he source says the quantities are symmetry applied of the "musk" aroma

We total synthetic musks imported h:hOctober, China accounts for 50 pert the Netherlands 17 percent, Great habad Switzerland for 15 percent and 12 naterial from the material from the stands and Switzerland is predomi-

MUSK XYLOL CHEAPER likk rylol is less expensive than musk kabecause its "cheaper feedstock costs oduction methods keep it lower." says machemicals broker. The ketone, as a is compounded in more costly per-One chemist with a domestic supplier metic musks says that, though the two acobylously different, "compounders whekelone in more expensive and the bless expensive formulations more out bithanneed." He adds that whether one imilitatively more desireable than the crissmatter of subjective preference.

he lost of the three nitro musks is musk ^{Cordic}a product that has been the subject footoversy since being "flagged as a senaccording to an around chemicals k. Ambrette has not increased in price was of the competition the Chinese in-palace from a US producer. A spokesman the producer says that in the last few "ambrette has been restricted for skin Met markets, like perfumes and after-

kmaintains that, despite an import drop mil50 tons in 1981 to less than 20 tons in material: "Volume use of the ambrette

CHANGES/UP

Allspice, Honduran, ic. per lb.
Cassin, Korinti B&C futures, 1-3c. per lb.
Cadarwood oil, Chinese, 30c. per klio
Cinnamon, H-2, 5c. per lb.
Cimamon leal oil, Colanese, 5c. per lb.
Citronella oil, Ceylanese, 10-20c. per lb.
Eucalyptus Citronella, Chinese, 35c. per klio
Lemon oil, Israell, 25c. per klio
Lemongrass oil, Guatemalan, 10c. per lb.
Ocolea Cymbarum oil, 10-50c. per klio
Papparmini oil, Chinese 60%, 30c. per klio
Spearmint oil, Chinese 60%, 30c. per klio
Tarragon, domostic, 50c.per lb. Tarragon, domostic, 60c.per ib.

CHANGES/DOWN

Basil leaves, French fancy, 3-4c. per lb. Coraway soed, Polish, 1c. per lb. Clovelent oil, Indonesian 80%, 5-20c. per kilo Cortandor soed, Rumanian, 1c. per lb. Corlandor soed, Rumanian, Ic. per ib.
Cumin seed, 1-3c. per ib.
Oill soed, Indian, 2c. per ib.
Firnoodle oil, Chineso, 35°s, 50c. per kilo
Polmarosa oil, Brazilian, \$1 per kilo
Patchouli oil, Indonesian, 30c. per kilo
Vetiveri oil, Indonesian, 50c. per kilo

PERFUMES INDEX

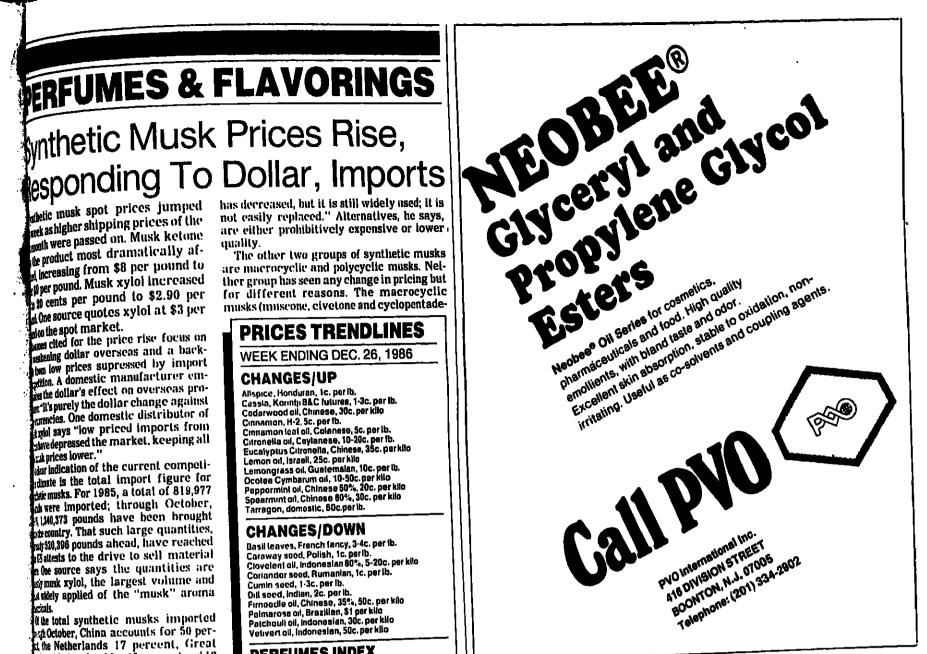
The Perlumes & Flavorings index reflects the prices of 11 representative materials in this sector and the quantity

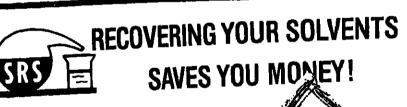
Chemical Prices Start on Page 24				
BC.	28, 1986 ·27, 1985 ·	. 71.00		
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	40.4006	. /1.00		
ıc.	26, 1986	. 71.00		
Cti	Cu 20bbilen in 1902.	-4.00		

canolide are examples) "are the most expensive," says an aroma chemicals importer. "No one can afford them." Due to their high and varied price range, from \$25 to \$1,500 per pound, a currency fluctuation would have to be in place for a long time before sellers would adjust prices.

The polycyclic musks are the newest mar-ket entries. Developed in the 1950's, products such as ethylene brassylate, galaxilide and ponalide have made substantial gains in the aroma chemicals market.

A market analyst predicts that the ketone and xylol price increases cannot reach much more than 10 percent of November spot levcls and emphasizes that 20 to 25 percent in creases are inconceivable. "Competition is





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December 29, 1986 CHEMICAL MARKETING REPORTER

SEED & SPICE IMPORTS: SEPTEMBER ASELECTION OF STATISTICS FROM THE BUREAU OF CENSUS.

Cartivay seed	SEPT. 762,072 1,924,284 705,137 201,174 79,887 649,339 641,126 142,600	AUG. 575,534 3,008,076 205,598 129,564 185,089 840,677 180,016 176,849	YTD '86 6,060,753 18,827,430 3,312,240 1,777,756 1,873,450 6,173,900 5,835,780 3,599,701 8,643,307	9EPT. '85 956,083 2,945,751 647,956 305,651 164,910 873,821 797,842 355,181 2,199,941
Gagarroot. Ib- Gagarroot. Ib- Bustard seed, whole Ib- Bustard seed, whole Ib- Humegs, unground Ib- Origenum, whole Ib- Papper, black, unground Ib- Papper, black, unground Ib- Papper, white, unground Ib- Papper, white, unground Ib- Paenbu unground Ib- Bage unground Ib- Lamande Ib- Lamande Ib- Vipilla beans Ib-	752,099 515,413 66,720	465,068 345,632	88,096,895 3,036,208 6,430,436 11,954,736 90,295,199 12,084,442 4,867,850 1,127,547 2,883,548	6,358,844 ,555,038 ,426,927 ,650,358 3,497,489 ,938,047 2,138,876 186,212 1,100,172 283,058

CHEMICAL PRICES

WEEK ENDING DECEMBER 26, 1986

This chemical prices section contains spot quotations and/or list prices of suppliers of chemicals and related materials on a New York or other indicated basis. The listings are based on price information obtained from suppliers. Note that posted prices do not necessarily represent levels at which transactions actually may have occurred. They do not represent bid and asked prices, nor a range of prices over the week. Price ranges may represent quotations of different suppliers as well as differences in quantity, quality and location. All matters under this heading are fully covered by copyright.

An index of weekly chemical market reports is on the back cover.

A			Alumina, activated, gran., 100-lb. I	VIII .	
			1 40.000-10, min. c.l., works	ilon 821 O	0
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C.I., I.I., WORKS INVID	26.00	[b.p./boiling point	1181./distillari	
FUU DOWN MOR down washed now.	35.00 55.00	_	a principle of	Nett./distribut	tor
Alum, Dolassium, lech, aran, has a l			by Joseph San	iiva./aeilyete	Hd
LL. WORKS 100 he	35.00	- 1		lms./drume lom./domest	
FCC power tiper ema., works . 100 lbs.	55.00	- 1	L		PG .
94				_	

ı			170.00	Anlimony fluoborato, liq. conc., 175-lb.	
	tanks, divd. Midwest termi- nalston	165.00	170.00		
ľ	 Iankcars, t.o.b. Gulf Coast ton 	80.00			
	aqueous, 29.4% NH, anhyd, basis.			I THE TOTAL OF THE PARTY OF THE	1
	tanks, frt. equald. E. of Rock-			Antimony trichloride anti-	
١	les ton Ammoniacal liquor (see Ammonia, aque	an iet	315 00		1
ı	Ammoniac sal, galvanizing grade, bgs.	rousj.		dms , t I works	
	i Gi., T.O.D. WORKS 1∩∩lh⊲.	28 40	_		
	Ammoniac sal, white (see Ammonium c	Norlde co	mi.).		
ı	i Ammonium Didorata, gran., dms. c.i.		•	r riume duiti, bawa, nnie	
	works	.90	-	LISP grade	2
	Ammonium bicarbonate, 300-lb. fib.	io. nigher.		Aronatic petroleum solvents (see Solvent, petroleum, gromatic)	g
ľ	ams., c.l., works 100 hs	26.00	_	petroleum, gromatic).	nap
	DQB., C.I	25.00	Ξ	Arsonic, crude ison Argonicus tro-data	
ı	Ammonium bichromate, photo-litho	-0.40	_	I OTTING IEU ISDNI NAODONI SAIIA MAIL	
ľ	9 1800.0180.100-lb.dms (+)			I Araumoua (noxine 99% bulk at	
	works	2.00	-	1.o.b. warehouse	
l	WORKS JA	70		I nacordic acid, USP, 100 kilos	
	Ammonium bromide, dom. NF, gran.,	.70	-		
	GITISC.ILI (A h works b	1.31	_	Carl Older (See Ballium & Judo)	
	Ammonium chloride, white, tech.,			Asphalt gilsonite, (see Gilsonite).	
	we gran., bos., c.l.			Asphalt potroleum cutback, tanks, E. Coast gal	
	works100ibs.	18.00	-	omulsion, tanks, tankwanon, E86	-
	USP, gran., dms	.40	.63	criulsion, tanks, tankwagons, E. Coast. 9al 68	
	dms. f.o.b. worksb.	9.70			-
	Ammonium dimolybdate, approx	2.79	-		_
	85% 24 NM lbs or more to	5.48	_	steep roosing grade, bulk tankwan-	
	Authorium fluoborate, tech., dms		_	Aspirin, USP, cryst., powd., 250-	-
	C.L. C.L. WORKS, IT ACTUALS IN	1.79	-	r iD.QNIS., C.L., J.O.D. ib see	
	Ammonium heptamolybdate, cryst., dms., 24,000 lbs., f.o.b.			10% Starch Granulation, white, 25%	•
	worke it.			/ ID. GM. C L. 1.O. b. 15 107	-
	ATTITION INJURY BUILDIO, LANKS (A.S.	5.57	-	16% starch granulation, white, same	
	WUIKB	.29	.32	basis	
	Allinomium lighth, Sulfonate bulk		.02	from N.Y., Phila., Midland, Mich., Chicago	יים ת
					<i>,</i> 214
	f.o.b. Floquiam, Ore ton	72.00	-	i Louis.	
	Asimonium nitrate, dom., fertilizer	72.00	-	Atropine sulfate, USP, bots oz 10.00 s	11.0
	grade, 33.5% N. bulk S.E.		-	Atropine sulfate, USP, bots oz. 10,00 1	
	grade, 33.5% N. bulk, S.E.	72.00	135.00	Atropine sulfate, USP, botsoz. 10,00 1 Avocado oil, dms	
	grade, 33.5% N. bulk, S.E. divd		- 135.00	Atropine sulfate, USP, bots	4.5
	grade, 33.5% N. buik, S.E. divd	130.00		Atropine sulfate, USP, bots	4.5
	grade, 33.5% N. buik, S.E. divd	130.00 1.42	- 135.00 1.68	Atropine sulfate USP, bots	11.0 4.5 - 9.5
	grade, 33.5% N. bulk, S.E. dvd. ton Ammonium oxalate, tech., fine. gran. 300-lb. dms., Lt., f.o.b. works. b. Ammonium pentaborate gran. bgs.	130.00		Atropine sulfate USP, bots oz. 10.00 1 Avocado oli, dms ib. 4.00 Azelaic acid, tech., 50-ib. bgs., t.l., c.l., divd ib. 1.23 Azo orange, bbls., divd ib. 7.00 Azo yellow, 10 G, bgs. divd E of Rockies ib. 8.95 Azo G yellow pigment, bgs., same be-	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. divd	130.00 1.42		Atropine sulfate USP, bots	4.5
	Ammonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dwd	130.00 1.42		Atropine sulfate USP, bots oz. 10.00 1 Avocado oli, dms ib. 4.00 Azelaic acid, tech., 50-ib. bgs., t.l., c.l., divd ib. 1.23 Azo orange, bbls., divd ib. 7.00 Azo yellow, 10 G, bgs. divd E of Rockies ib. 8.95 Azo G yellow pigment, bgs., same be-	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd	130.00 1.42		Atropine sulfate, USP, bots	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dwd	130.00 1.42		Atropine sulfate USP, bots oz. 10.00 1 Avocado oli, dms ib. 4.00 Azelaic acid, tech., 50-ib. bgs., t.l., c.l., divd ib. 1.23 Azo orange, bbls., divd ib. 7.00 Azo yellow, 10 G, bgs. divd E of Rockies ib. 8.95 Azo G yellow pigment, bgs., same be-	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dwd	130.00 1.42 .75	1.68	Atropine sulfate, USP, bots	4.5
	Arminolium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75	1.68	Atropine sulfate, USP, bots	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dwd	130.00 1.42 .75	1.68	Atropine sulfate, USP, bots	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½	1.68	Atropine sulfate, USP, bots	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75	1.68	Atropine sulfate, USP, bots	9.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ 2000ammoi	1.68	Atropine sulfate, USP, bots	9.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .56½ onoammon .30¾ 80.00 60.00	1.68 - - - - - - 90.00 70.00	Atropine sulfate, USP, bots oz. 10.00 1 Avocado ell, dms ib. 4.00 1 Azelaic acid, tech., 50-ib. bgs., t.l., c.l., dlvd ib. 7.00 1 Azo orange, bbls., dlvd ib. 7.00 1 Azo yellow, 10 G, bgs. dlvd E of Rockles ib. 8.96 1 Azo G yellow pigment. bgs., same basis ib. 6.85	9.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ 2000ammoi	1.68 - - - - - 90.00	Atropine sulfate USP, bots oz. 10.00 Avocado ell, dms lb. 4.00 Avocado ell, dms lb. 1.23 Azo orange, bbls., divd lb. 7.00 Azo yellow, 10 G, bgs. divd E of Bockles lb. 8.95 Azo G yellow pigment, bgs., same basis lb. 6.85	9.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd	130.00 1.42 .75 .58 \(\frac{5}{2} \) 200ammon \(\frac{30\psi_4}{0.00} \) 80.00 60.00	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots	9.5
	Armonium nitrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 \(\frac{5}{2} \) 200ammon \(\frac{30\psi_4}{0.00} \) 80.00 60.00	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots oz. 10,00 1 Avocado ell, dms lb. 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.	4.5 9.5 - - - 6.86
	Armonium nitrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 \(\frac{5}{2} \) 200ammon \(\frac{30\psi_4}{0.00} \) 80.00 60.00	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate USP, bots. oz. 10,00 Avocado oli, dms. lb. 4.00 Azefalc acid, tech., 50-lb. bgs., t.l., c.l., dlwd. lb. 7.00 Azo orange, bbls., dlwd. lb. 7.00 Azo yellow, 10 G, bgs. dlwd E of Rockles . lb. 8.95 Azo G yellow pigment. bgs., same basis . lb. 6.85 Bacitracin, USP, non-sterile, one bilbon units or more . millionunits Barbital-sodium, NF, 50-kilo dms. dlwd. kilo Barbital-sodium, NF, 50-kilo dms. dlwd. kilo Barbital-sodium, NF, 50-kilo dms. dlwd. kilo Barite, dry-grd., Southern, off-color, coerse, bgs., c.l., f.o b, mines lb. water-grd., white, bgs., c.l., 09	4.5 9.5 - - 6.8
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. divd	130.00 1.42 .75 .58 \(\frac{5}{2} \) 200ammon \(\frac{30\psi_4}{0.00} \) 80.00 60.00	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots oz. 10,00 Avocado oli, dms lb. 4.00 Avocado oli, dms lb. 4.00 Avocado oli, dms lb. 4.00 Avocado oli, dms lb. 1,23 Azo orange, bbls dlvd lb. 7.00 Azo yellow, 10 G, bgs. dlvd E of Rockles lb. 8.96 Azo G yellow pigment, bgs same basis lb. 6.85 Bacitracin, USP, non-sterile, one bilkon units or more millionunits G.30 Esrbital, NF, 50-kto dms. dlvd kto Barbital-sodium, NF, 50-ktlo dms. dlvd ktio Barite, dry-grd., Southern, off-color, coarse, bgs cl., f.o.b. mines lb. vater-grd., white, bgs cl., f.o.b. water-grd., white, bgs cl., f.o.b. mines lb. 13	4.5 9.5 - - 6.8
	Armonium nitrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .56V ₂ .500ammon .30V ₄ 80.00 60.00 108.00 460.00 conlum thic	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots oz. 10.00 Avocado oli, dms ib. 4.00 Avocado oli, dms ib. 4.00 Avocado oli, dms ib. 4.00 Avocado oli, dms ib. 1.23 Azo orange, bbls., divd ib. 7.00 Azo yellow, 10 G, bgs. divd E of Rockles ib. 8.96 Azo G yellow pigment. bgs., same basis ib. 6.85 Bacitracin, USP, non-sterile, one bilhon units or moro millionunits assis ib. 6.85 Bacitracin, USP, non-sterile, one bilhon units or moro millionunits or moro moro millionunits or moro moro moro moro millionunits or moro moro moro moro moro moro moro	4.5 9.5 - - 6.8
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ 2000arnmon .30¾ 80.00 60.00 108.00 460.00 conlum thic	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots	4.5 9.5 - - 6.8
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd	130.00 1.42 .75 .58 .58V ₂ .56V ₂ .500ammol .30¾ 80.00 60.00 108.00 460.00 conium thic	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Avocado oli, dms. lb. 4.00 Avocado oli, dms. lb. 4.00 Avocado oli, dms. lb. 1.23 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs, dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 Bacitracin, USP, non-sterile, one bilkon units or more . millionunits of lb. 6.85 Barbital, NF, 50-kto dms, dlvd. kto Barbital-sodium, NF, 50-ktlo dms. dlvd. ktlo Barbital-sodium, NF, 50-ktlo dms. dlvd. ktlo Barite, dry-grd., Southern, off-color, coarse, bgs., cl., f.o.b, mines lb. water-grd., white, bgs., cl., f.o.b, water-grd., white, bgs., cl., f.o.b, works . lb. 13 unbleached, extra-fine, pigment grade, cl., f.o.b, works . ton Barium carbonate, precip., bulk, cl.,	4.5 9.5 - - 6.8
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd	130.00 1.42 .75 .58 .56V ₂ .500ammon .30V ₄ 80.00 60.00 108.00 460.00 conlum thic	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots. oz. 10,00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 1,23 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 Bacitracin, USP, non-stenie, one bilbon units or more . millionunits sis . lb. 6.85 Barbital, NF, 50-kilo dms. dlvd. kilo Barbital-sodium, NF, 50-kilo dms. dlvd. kilo Barite, dry-grd., Southern, off-color, coerse, bgs., c.l., 1,0 b. mines b. water-grd., white, bgs., c.l., (.o.b. works . lb. unbleached, extra-fine, pigment grade, c.l., 1,0 b. works . ton Barium carbonate, precip., bulk, c.l., works, Int. equald	4.5 9.5 - - 6.8
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd	130.00 1.42 .75 .58 .58½ 200armmon .30¾ 80.00 60.00 108.00 108.00 1.02 .93	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 1.23 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs, dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 Bacitracin, USP, non-sterile, one bilkon units or more . millionunits sis . lb. 6.85 Barbital, NF, 50-kto dms, dlvd. k80 Barbital-sodium, NF, 50-ktlo dms. dlvd kilo 23 00 Barite, dry-grd., Southern, off-color, coarse, bgs., cl., f.o.b. mines lb. water-grd., white, bgs., cl., i.o.b. works . lb. unbleachod, extra-fine, pigment grade, cl., l.o.b. works . ton 180.00 Barium carbonate, precip., bulk, cl., works, iri. equald. lb. 25 bgs., same basis . lb. 25½ photo grade, bgs., same basis ton 510.00	4.5 9.5 - - 6.8
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58V ₂ .56V ₂ .500ammol .30¾ 80.00 60.00 108.00 460.00 conium thic	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Avocado oli, dms. lb. 4.00 Avocado oli, dms. lb. 4.00 Avocado oli, dms. lb. 1.23 Azo orange, bbls., divd. lb. 7.00 Azo yeliow, 10 G, bgs, divd E of Rockles. lb. 8.96 Azo G yellow pigment. bgs., same bassis. lb. 6.85 Bacitracin, USP, non-sterile, one bilbon units or moro millionunits barbital, NF, 50-kto dms. dib. 6.85 Barbital-sodium, NF, 50-ktlo dms. divd. ktlo Barbital-sodium, NF, 50-ktlo dms. divd. ktlo Barita dry-grd. Southern, of color, coarse, bgs., c.l., f.o.b. mines lb. water-grd., white, bgs., c.l., f.o.b. works. lb. unbleached, extra-fine, pigment grade, c.l., f.o.b. works. lb. 13 unbleached, extra-fine, pigment grade, c.l., f.o.b. works. lb. bgs., same basis. lb. photo grade, bgs., same basis ton Barium chiorato, 100-lb. dms., 1-10	4.5 9.5 - - - 6.86
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ 200armmon .30¾ 80.00 60.00 108.00 108.00 1.02 .93	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots. oz. 10,00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 1,23 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 Bacitracin, USP, non-sterile, one bilbon units or more . millionunits sis . lb. 6.85 Barbital, NF, 50-kilo dms. dlvd. kilo Barbital-sodium, NF, 50-kilo dms. dlvd. kilo Barite, dry-grd., Southern, off-color, coerse, bgs., cl., 1.0 b. mless b. water-grd., white, bgs., cl., i.o.b. works . lb. unbleached, extra-fine, pigment grade, cl., i.o.b. works . lb. 13 unbleached, extra-fine, pigment grade, cl., i.o.b. works . lb. 25½ bgs., same basis . lb. 25½ bgs., same basis . lb. 25½ bnloto grade, bgs., same basis ton Barium chiorato, 100-lb. dms., 1-10 dm, lots. works . lb. 1.04	4.5 9.5 - - - 6.86
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ 2000ammoi .30¾ 80.00 60.00 108.00 108.00 1.02 .93 .13 .72 .57	1.68 - - - - - 90.00 70.00 120.00	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azelac acid, tech., 50-lb. bgs., Li, ci, dlvd. lb. 7.00 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 Bactitracin, USP, non-sterile, one bilkon units or more millionunits Barbital, NF, 50-klo dms., dlvd. k80 Barbital-sodium, NF, 50-klo dms., dlvd. k80 Barbital-sodium, NF, 50-klo dms., dlvd. k80 Bartite, dry-grd., Southern, off-color, coarse, bgs., cl., f.o.b. mines lb. water-grd., white, bgs., c.l., f.o.b. works . lb. unbleached, extra-fine, pigment grade, cl., f.o.b. works . ton 180.00 Barium carbonate, precip., bulk, cl., works, iri. equald . lb. bgs., same basis ton Barium chlorate, 100-lb. dms., 1-10 dm., lots, works lb. Barium chlorate, tech., cryst., bgs., c.l., 1.04	4.5 9.5 - - 6.8
	Armonium nitrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .56V ₂ .500ammon .30¼ 80.00 60.00 108.00 108.00 1.02 .93 .13 .72 .67	1.68 - - - - 90.00 70.00 120.00 - - 	Atropine sulfate USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azelac acid, tech., 50-lb. bgs., Ll., cl., dlwd. lb. 7.00 Azo orarge, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 Bactiracin, USP, non-sterile, one bilbon units or more . millionunits Bsrbital, NF, 50-kilo dms. dlvd. kilo Barbital-sodium, NF, 50-kilo dms. dlvd. kilo Barite, dry-grd., Southern, off-color, coerse, bgs., cl., f.o.b. mines b. water-grd., white, bgs., cl., f.o.b. works . lb. unbleached, extra-fine, pigment grade, cl., f.o.b. works . ton Barium carbonate, precip., bulk, cl., works, in equald lb. bgs., same basis lb. photo grade, bgs., same basis ton Barium chlorate, 100-lb. dms., 1-10 dm, lots, works lb. Berium chloride, tech., cryst., bgs. c.t., works	4.5 9.5 - - - 6.86
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd	130.00 1.42 .75 .58 .56½ .56½ .500ammon .30¾ .80.00 60.00 60.00 60.00 .00ium thic 1.02 .93 .13 .72 .67 .46½ 2.35	1.68 - - - - 90.00 70.00 120.00 - - - - - - - - - - - - - - - - - -	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. ib. 4.00 Acocado oli, dms. ib. 4.00 Azocado oli, dms. ib. 1.23 Azo orange, bbls., dlvd. ib. 7.00 Azo yellow, 10 G, bgs. dlvd. ib. 7.00 Azo yellow, 10 G, bgs. dlvd. ib. 8.95 Azo G yellow pigment, bgs. same basis ib. 6.85 Bacitracin, USP, non-sterile, one bilkon units or more millionunits ib. 6.85 Barbital, NF, 50-kto dms., dlvd. kto Barbital-sodium, NF, 50-kto dms., dlvd. kto Barbital-sodium, NF, 50-kto dms., dlvd. kto 23 00 Barite, dry-grd., Southern, off-color, coerse, bgs., cl., f.o.b. mines ib. water-grd., white, bgs., cl., f.o.b. works ib. unbleached, extra-fine, pigment grade, cl., f.o.b. works. ton Barium chlorate, precip., bulk, cl., works, if. equald. ib. bgs., same basis ton Barium chlorate, procip., bulk, cl., works. ib. bgs., same basis ton Barium chlorate, 100-lb. dms., 1-10 dm. lots, works. ion Barium chlorate, purif., cyrst. 400-b. 470.00 Barum chlorate, purif., cyrst. 400-b.	4.5 9.5 - - - 6.86
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ 2000ammon .30¾ 80.00 60.00 108.00 460.00 conlum thic 1.02 .93 .13 .72 .67 .46½ 2.35	1.68 - - - 90.00 70.00 120.00 - - - - - - - - 2.50 1.03	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Avocado oli, dms. lb. 4.00 Azefalc acid, tech., 50-lb. bgs., t.l., c.l., dlvd. lb. 7.00 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs., dlvd E of Rockles. lb. 8.96 Azo G yellow pigment. bgs., same bassis lb. 6.85 Azo G yellow pigment. bgs., same bassis lb. 6.85 Barbital-sodium, NF, 50-kilo dms. dlvd. kilo Barital dry-grd., Southern, off-color, coarse, bgs., c.l., f.o.b. mines lb. water-grd., white, bgs., c.l., f.o.b. works. lb. unbleached, extra-fine, pigment grade, c.l., f.o.b. works lb. 180,00 Barium carbonate, precip., bulk, c.l., works. in. lb. bgs., same basis. lb. photo grade, bgs., same basis ton Barium chlorate, 100-lb. dms., 1-10 dm. lots, works. lb. Barium chloride, tech., cryst., bgs., c.l., works. lb. dms., 1-10 dm. lots, works. lb. dms., 1-10 dm. lots, works. lb. dms., 1-10 dms. lotore, puril., cyrst. 400-b. dms., works. lb. 3.76	4.5 9.5 - - - 6.86
	Armonium nifrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ .58½ .58½ .500ammon .30¾ .80.00 .60.00 .108.00 .108.00 .102 .93 .13 .72 .67 .46½ 2.35 .91 11.00	1.68 - - - - 90.00 70.00 120.00 - - - - - - - - - - - - - - - - - -	Atropine sulfate USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azefalc acid, tech., 50-ib. bgs., Li, ci, dlvd. lb. 7.00 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 lb. 6.	4.5 9.5 - - - 6.86
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd ton Armonium oxalate, tech, fine, gran. 300-lb. dms., Ll., f.o.b. works b. Armonium pentaborate gran. bgs., c.l., works lb. Ammonium pentaborate powder 20c. per B. higher. Armonium persulfate, 225-lb. dms. 24,000 lbs. or more, f.o.b. works b. 55-lb. bgs., same basis b. 55-lb. bgs., same basis b. Armonium phosphate (see DI- and more). Ammonium allicofluoride, dms. c.l., t.l., works ton std., comil., bulk, f.o.b. works ton Ammonium sulfide, fiq., 40-44% tanks, 100% basis, frr. equald., ton Ammonium sulflocyanate, tech. (see Amm Ammonium thiocyanate, tech. (see Amm Ammonium thiocyanate, tech., cryst., bgs., c.l., works ib. tech soh., 50%, tanks, frr. equald., bd. Ammonium zirconyl carbonate, soh., bulk, bl. Ammonium zirconyl carbonate, soh., bl. Ammonium zi	130.00 1.42 .75 .58 .58½ 2000ammon .30¾ 80.00 60.00 108.00 460.00 conlum thic 1.02 .93 .13 .72 .67 .46½ 2.35	1.68 - 90.00 70.00 120.00 2.50 1.03	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 1.23 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd. lb. 8.95 Azo G yellow pigment, bgs. same basis lb. 6.85 Azo G yellow pigment, bgs. same basis lb. 6.85 Barbital-sodium, NF, 50-kilo dms. dlvd. kilo Barbital-sodium, NF, 50-kilo dms. dlvd. kilo 23 00 Barite, dry-grd. Southern, off-color, coarse, bgs., cl., fo.b. mines lb. water-grd., white, bgs., cl., fo.b. works lb. unbleached, extra-fine, pigment grade, cl., fo.b. works lb. bgs., same basis ton Barium carbonate, precip., bulk, cl., works, lri. equald. lb. bgs., same basis ton Barium chlorate, 100-lb. dms., 1-10 dm. lots, works lb. Barium chlorate, purif., cyrat. 400-lb. dms., works lb. Barium chlorate, purif., cyrat. 400-lb. dms., works lb. Barium chlorate, purif., cyrat. 400-lb. dms., works lb. Barium chlorate, 55-lb. bgs., cl., 46.00	4.5 9.5 - - - 6.86
	Armonium intrate, dom., fertilizer grade, 33.5% N. buik, S.E. dvd	130.00 1.42 .75 .58 .58½ .58½ .58½ .58½ .500ammoi .30¾ .80.00 .60.00 .108.00 .108.00 .1.02 .93 .13 .72 .67 .46½ .2.35 .11.00 .10.00 .10.00	1.68 - - - 90.00 70.00 120.00 - - - - - - - - 2.50 1.03	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azefac acid, tech., 50-lb. bgs., Li, ci, dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd E of Rockles . lb. 8.95 Azo G yellow pigment, bgs., same basis . lb. 6.85 Azo G yellow pigment, bgs., same basis . lb. 6.85 Barbital, NF, 50-klo dms. dlvd. klo Barbital-sodium, NF, 50-klo dms. dlvd. klio Barite, dry-grd., Southern, off-color, coarse, bgs., cl., f.o.b. mines lb. water-grd., white, bgs., cl., f.o.b. works . lb. unbleached, extra-fine, pigment grade, cl., I.o.b. works . lb. bgs., same basis ton Barium chlorate, pigment, works. In. equald. lb. bgs., same basis ton Barium chlorate, 100-lb. dms., 1-10 dm. lots, works lb. Barium chlorate, puril, cyrst., bgs., cl., works lb. Barium chlorate, puril, cyrst., bgs., cl., t.1, l.o.b. works lb. Barium chlorate, puril, cyrst., bgs., cl., t.1, l.o.b. works lb. Barium chlorate, puril, cyrst., bgs., cl., t.1, l.o.b. works lb. Barium chlorate, puril, cyrst., bgs., cl., t.1, l.o.b. works lb. Barium monohydrate, 55-lb. bgs., cl., t.1, l.o.b. works lb. Barium monohydrate, 55-lb. bgs., cl., t.1, l.o.b. works lb. Barium monohydrate, 55-lb. bgs., cl., t.1, l.o.b. works lb. Barium monohydrate, 55-lb. bgs., cl., t.1, l.o.b. works lb. Barium chlorate, cryst., bgs., same	4.5
	Armonium intrate, dom., fertilizer grade, 33.5% N. bulk, S.E. dvd ton Armonium oxalate, tech, fine, gran. 300-lb. dms., Ll., f.o.b. works b. Armonium pentaborate gran. bgs., c.l., works lb. Ammonium pentaborate powder 20c. per B. higher. Armonium persulfate, 225-lb. dms. 24,000 lbs. or more, f.o.b. works b. 55-lb. bgs., same basis b. 55-lb. bgs., same basis b. Armonium phosphate (see DI- and more). Ammonium allicofluoride, dms. c.l., t.l., works ton std., comil., bulk, f.o.b. works ton Ammonium sulfide, fiq., 40-44% tanks, 100% basis, frr. equald., ton Ammonium sulflocyanate, tech. (see Amm Ammonium thiocyanate, tech. (see Amm Ammonium thiocyanate, tech., cryst., bgs., c.l., works ib. tech soh., 50%, tanks, frr. equald., bd. Ammonium zirconyl carbonate, soh., bulk, bl. Ammonium zirconyl carbonate, soh., bl. Ammonium zi	130.00 1.42 .75 .58 .58½ 2000ammon .30¾ 80.00 60.00 108.00 460.00 conlum thic 1.02 .93 .13 .72 .67 .46½ 2.35 .91 11.00 10.20 14.50	1.68 - 90.00 70.00 120.00 2.50 1.03	Atropine sulfate, USP, bots. oz. 10.00 Avocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 4.00 Azocado oli, dms. lb. 1.23 Azo orange, bbls., dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd. lb. 7.00 Azo yellow, 10 G, bgs. dlvd. lb. 8.95 Azo G yellow pigment, bgs. same basis lb. 6.85 Azo G yellow pigment, bgs. same basis lb. 6.85 Barbital-sodium, NF, 50-kilo dms. dlvd. kilo Barbital-sodium, NF, 50-kilo dms. dlvd. kilo 23 00 Barite, dry-grd. Southern, off-color, coarse, bgs., cl., fo.b. mines lb. water-grd., white, bgs., cl., fo.b. works lb. unbleached, extra-fine, pigment grade, cl., fo.b. works lb. bgs., same basis ton Barium carbonate, precip., bulk, cl., works, lri. equald. lb. bgs., same basis ton Barium chlorate, 100-lb. dms., 1-10 dm. lots, works lb. Barium chlorate, purif., cyrat. 400-lb. dms., works lb. Barium chlorate, purif., cyrat. 400-lb. dms., works lb. Barium chlorate, purif., cyrat. 400-lb. dms., works lb. Barium chlorate, 55-lb. bgs., cl., 46.00	4.5 9.5 - - - 6.86

-Amino-2-methyl-1-propangi, 95%

dms., c.l., t.l., f o.b., works. . lb. tanks, f.o.b. works. lb.

p-Aminophenol, t.l. dnis., f.o.b. Raleigh, N.C. Allo p-Aminosalicylic acid, USP, 50-kilo dms., t.l. kilo Ammonia, anhyd., ferhizer, wholesale,

ninophenol, dms., I o.b. Charlotte, N.C. Ib.

3.95

Spanish, bgs.
Turkish, bgs.
Anisch edohydo, cns. dnis.
O-Anischne, mp., dnis. dvd

nthrandic acid, purif

works b. cast solid, dms.

, 99°. • min., dms.,

1.40 1.10 1.05 4.80 2.27

I-Aminosityi pperazina, tanks, f.o.b., frt. colect	1.33½ 1.05 1.82	-	USP, dms. Angelica root of	, dms. kik .kb l, bots. kik .o.b. lb.	10.20 4.50 700.00	4
ABBR	E	V	ΔΤ	ION	S	
THE TERMINOLOGY OF	THE	CHEMI	CAL MARK	TPLACE		_

THE THIRTY	<u>/ (3)</u>
a/alpha alid./sliewed amorph./emorphous AMP/American meiting point anhyd./enhydrous AOAC/Association of Official Agricultural Chemists s.p.a./available phos- phoric acid approx./approximately artif./artificial ASTM/American Soci- ely for Testing & Materials	
	_ =

e.p./end point equald./equalize exp./expressed extr./extracted

I-/ISSVo F./Fahrenheit f.a.e./free alongelde terment./formentation f.l.a./free faity acid f.l.o./free from chlorin f.f.p.e./free from prus-sic acid fib./fiber f.o.b./free on board f.p./freezing point frl./freight g-/gemma gel./gallon g.p./general purpos gran./granular grd./ground i.b.p/initial boiling point (mp./imported

o-/ortho ord./ordinary oz./ounce kgs./kegs m-/meta
m.a.p./mixed antiline
point
meg./microgram
mfrs./menufacturen
min./minimum
molt./molten
m.p./meiting point

secs./seconds sp.g./specific gravity ship't/shipment som./sclution sch./standard son./swithetic

tanks/reliroad tankers tech./technical tert./isrilary t.l./truckload ton/refers to short ton of 2,000 pounds TVA/temporary volun-tary allowance t.w./tankwagone USP/United States Pharmacopela vis./viscosity VM&P/varnish makers & painters

W/West whee./warehouse w.w./water-white

NOTE: A unit-ton is 1 percent of 2,000 pounds of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the unit-ton price shown in Chemical Marketing Reporter gives the price of 2,000 pounds of the material.

Barlum steamete, bulk, t.l., t.o.b.
Berlum steamete, bulk, t.l., t.o.b. 460.00 1.50 55.00 62.00 52.00 Besl of Comores ib.
Basl of Egyptian ib.
Ratary acid, L1., Lo.b., works ton Banayaca, L., 1.0. Walled Banale, calcined, refractory grado, 874-88% Al₂O₃. Baltimore & Mobile. ... metric-ton Bayol, NF, 50-55%, dms. ... ib. 11.00 2.70 Byberywax, bgs. 100-lb, ctns. 1b.
Bricks, 100-lb, ctns. 1b. 3.20 3.10 3.10 3.05 3.10 3.05 3.00 2.95 white, stabs, 100-lib, ctns. . . . lb, yellow, bricks, 100-lib, ctns. . . lb, yellow, bricks, 100-lib, ctns. . . lb, yellow, stabs, 100-lib, ctns. . . lb. Bentonite, dom., c.l. bags, 1.o.b. 43.50 Berzane, Indust. or nitration, barges, f.o.t
Baton Rouge, L.a. gal.
Baytown, Tex. gal.
Beaumont, Tex. gal.
Catletlaburg, Ky. gal.
Chicago district gal.
Chocotate Bayou, Tex. gal.
Calona, Pa. gal.
Corpus Christi, Tex. gal.
Deer Park, Tex. gal.
Houston district, spot. gal.
Lima, Ohio gal.
Benzene hexachloride, 99% gamma Ison
Berzichne Grange, powd, bgs. cilvd ib. szidne orange, powd., bgs., dlvd. lb. lig., containers, dlvd. lb. 4.90 3.36 5.80 7.35 5.95 ig, containers, divd. lb. idneyslow, AAA, bgs., divd. . lb. Benzodhydropyrone, dms......lb.
Benzok sold, tech., bgs., c.l., t.l., f.o.b.
works works W USP cryst., drns., ton lots same ba-works. kgs. 4.35
2.3-Benzolhlazyi disullide (see Marcaptobenzoti equald. ib.
tanks, fri. equald ib.
Bezoyl chloride dnns., c.l., works. ib.
tanks, fri. equald. ib.
Benzoyl peroxide, regular gran.,
10,000-lb. lots or more, bgs.,
works, fri. equald. ib.
paste, 50% and 55% formulations,
dma. pats fri. equald. ib. dms. pails, frt. equald. . . . lb. Benzyl acetate, drns. Ib.
Benzyl alcohol, N.F. t.I. drns. Int.
equald. Ib.
tanks, same basis tanks, same basis
photo grade, t.l., dms., same basis ... ib.
tanks, same basis ... ib.
tanks, same basis ... ama basis lb.
tanks, same basis ... ib.
Banzyl benzoate, dms. ... ib. lanks, f.o.b. ... ib.
Benzyl-Innamato, 25-ib. cns. ... ib.
n-Benzyl-N,N-dimethylamino, t.1.,
dms., f.o.b. works ib.
Benzyl-Nymethylamino, t.1., 8 60 2.30 10.50 Benzyl formate, dms. ib. 10.50
6-tert-Butyl-m-cresol (see Mono-tert-butyl-m-cresol
Benzyl spengenol, dms. ib. 15.50
Benzyl propionate, dms. ib. 3.35
Benzyl propionate, dms. ib. 2.90
Benzyl sekcylate ib. 2.90
Benzyl sekcylate ib. 2.95
Benzyl sekcylate klio 44.75 Byteny (see Dipheny).

Byteny (see Dipheny).

Bismuth nitrate, purif. cryst., 100b.dms., frt. equald. 10.00

Bismuth oxychloride, 100-ib. dms., 17.20 Bismuth subnitrate NF, powd., 200-lb.
dms., works. b. 14.46

Bismuth subselicylate, puril. powd., 50-100 fb. dms., works. b. 17.00 Bismuth trioxide, reagent, powd., 100-lb. dms., works. b. 15.00 15.45

Bisphenol-A, epoxy grade, hopper cara, divd. b. 67 polycarbonate grade, same beals lb. 71 Bianc fixe, syn., kmp., begs. b. 20 Bois de rose oil, Braz., dms. b. 6.76

BON toner (red 48) dms., int. alid. ib. 7.25 8.05

fred 52) dms., same basis. lb. 8.50 7.90

Bonemeal, steamed, dom., bgs., cl., 180,00 190,00

Bone phosphate, defluorinated of lime (see Defluorinated phosphate), dese Calcium phosphate tribasio).

Bone phosphate, precip, (see Calcium phosphate tribasio).

Borau, lech., sninyd. 99%, bgs., cl., works. co. 647.00 602.00

0	orax, tech., gran., decahydrate,		10	alcium carbide, std., generator size,
-		237.00 - 192.00 -	ا ا	bulk, c.t., f.o.b., works, ton 402.00 - Calcium carbonate, pulverized, 326-
Ì	tech., pentohydrate, gran. 9972%,	265.00 -	`	mesh, bgs., bulk, 1.o.b.
1	bulk, c.l., works ton	200.00 - 220.00 -	- 1	works
	orax, NF (See Sodium borate). loric scid, tech., gran., 99.9%, bgs.,		- 1	basis
'	cl, works ton	614.00 -	- 1	quicklime, gran., ind., bulk, work-
1 6	oron trichtoride, CP, 1,800-lb. cyls.	569.00 -	- 1.	ston 100.93 - Calcium carbonate, coated, bgs., c.l.,
1	workslb. Boron trifluoride, 60-lb. cyls., t.l., f.o.b.	3.60 -		worksb0830 .1600
Ι,	works	4.03 -	· [Catcium carbonate, precip., bgs., cl.,t.lton 385.00 445.00
- 10	bulk, same basisb. 30ron trilluoride, etherate, 500-lb.	3.47 -		Calcium carbonate precip. medium,
- [dms., t.l., f.o.b., workslb. phenolate, 500-lb. dms., t.l., same	2.35 -	·	bgs., c.l., works ton 110.00 150.00 precip. dense. bgs., c.l., surface
	basis	1.65 -	- }	treated, bgs., c.l., works ton 265.00 ~
	Bramine, dms., t.l., works b. bulk, 45,000-lb. min., works lb.		341/2	ultrafine, USP, bgs., c.l.,works
Ì	purif., t.i., dlvd	· 75, After Whender	rkies	Calcium chloride, conc., reg. grade. 77- 80%, flake, bulk, c.1
1	1c per Ib. higher. Bulk t.t. pric	85 1 C. 10 2 1/2 C. P	er- ID.	workston 153.00 -
- 1	higher for 30,000-lb. min. an higher for 15,000-lb. min.	d 4c. to 5½cj	per-ID.	100-b. bgs. c.l., same basis ton 198.00 -
- 1	Bromochloromethane, dms., c.l., f.o.b.	1.12	_	anhyd., 94-97%, flake or pallet, bulk,
Į	Midlandb. Butadiene, tanks, f.o.b		.13	c.l., same basis
- 1	1,4-Butanediol, tanks, f.o.b., frt. equald	.80	-	brining grade, 80-lb, bags ton 265.00 -
- 1	dms., same basislb.	.88 .26	- .28	Calcium chlorida, Ilq., 100 percent ba- sis, t.o., t.t., barge ton 99.75 -
l	Butene-1, lanks, (.o.b. worksb. n-Butyl acetate, syn., tanks, frt. alid.lb.	.521/2	-	45% same basis
- 1	n-Butyl acrylate, tanks, frt. alid. E ib. n-Butyl alcohol, syn., ferment, tanks,	.69	-	dms., t.l., frt. equald lb
- 1	1rl. 8HQ	.34	<u>-</u>	Calcium citrate, purif., 200-lb. dms., 10,000 lbs. or more, f.o.b.
- 1	sec-Butyl alcohol, syn., tanks, divd. lb. tert-Butyl alcohol, syn., tanks, divd.	365	-	workslb. 3.82 -
	E	.70	-	Calcium cyanamide, indust., anhyd. dms., works
ļ	Butyl akehyde (see Butyrakiehyde) Butyl benzyl phthalate, tanks, frt.			Calcium gluconate, USP powd. t.l lb. 1.80 -
- 1	alid	.59 .99 1	1.00	Calcium hydride, lump, dms., 25- 1,000-b. lots. worksib. 10.50 13.2
l	Butyl cyclohexyl phthalate, tanks.		_	Caldium hypochlorite, 100-lb. dms.,
	divd	1.85	-	truckloads ship,t. E. of Rock- les
	Butyl isodecyl phthelate, tanks, dvdb.		_	Calcium hypophosphite, dms., bulk, 500 kilos or more kilo 13.75 14.5
)	n.Rutul lactate, tanks, 1.0.b, Works . ID.	1.58	-	Calcium lodate, FCC dms., f.o.b.
) 5	n-Butyllithium, 15% soln., 1,000-ib. lots or more cyls., 100%	•		works
5	heels divd	. 13.40	-	1 works KIO 23.03 23.0
J	tanka, 3,000-lb. min., 100% basis divdlb	, 14.70	-	Calcium lactate, NF, powd., pentahy- drate, dms., 24,000 lbs. or
0	Butyl methacrylate, tanks, irt	.88	-	more, i.o.b. works lb. 2.00 -
_	i Butul octul obthalate, tanks, divu		.42	special grandried grade, same ba-
В	E	70	.82 .75	SIS
5	tanks	70	-	I (a b Alant F Of HOCKIPS ID. 99 -
	Butyl phthaiate (see Dibutyl phthalate Butyl stearate cosmetic, dms., 77 dms	t		d-Calcium pantothenate, USP, 100- 500-kilo lotskilo 12.50 -
0	or more		.97 -	d-Calcium pantothenate, faeo grade.
	tanks	60	.62	f.o.b. frt. aild., 250 kilos or more
disul-	tanks Butylamine (see Mono-Di- and Tribut		.58	di-Calcium pantothenate, calcium chio- ride complex, feed grade, 160
	I lart-Ruitviamina. Oma., C.I., Cir, I.V.		_	orams per lb., f.o.b., frt. elid.,
	works.	1.17	-	500 ibs or more ib. 2.79 Calcium phosphate, dibasic, feed
	Bulylated hydroxyanisole, food grad dms., divd	U,	8.85	grade, 18½% P. bulk, c l., t l., f.o.b. works ton 228.00
	I Durbiated hydroxytoluene, 1000, 198	#U	1.40	Calcium phosphate, dipasic, dityorate,
	grades, cl., tl., bgs., dvd tech., bgs., c.l., tl., dvd	b. 1.25	1.38	USP, bge., c.l., l.l., works, frt. equald 100 lbs. 62 50
:	1,3-Bulylene glycol, tanks, divd	b .29V2	.38	annud (ISP same basis, 100 lbs. / 1.79
59 75	1 Culturic acid. tanks, int. alio.	D77.2	-	dentifice grade, same basis00 lbs. **3.50
73	Butyric ether (see Ethyl butyrate). Butyrolactone, tanks, i.o.b. plant.	lb. 1.20	-	monohydrala, 1000 Graue,
.98	n-Butyronitrile, dma., c.l., divd tanks, divd	ш.	=	bgs., c.l., t.l., works, frt. equald 100 lbs. 50.50
	(BIRS, GVG.			anhyd., food grade, same ba- sis
.95 .25				I sebagio NE procip. DOS., C.I., 175
.85				Calabra propionate, dms., 2,000 lbs.
.43				Or more r.o.o. int. and
_				l modes
-	Cadmium chloride, purif. cryst., 1	00-		Calcium silicate, paint grade (see Wollastonite). Calcriel, NF, mid powd., 100-lb. dms.,
-	In dose 11 WOOKS	. 10. 0	-	(.o.b. works
2.25	Cadmium, CP, rad, dark anade, or	of	16.35	
-	Hockies	b. 9.16	12.06	Campbox syn. tech., 165-lb. dms.,
- 9.95	Table and the second control of the	ı.lb. 10.69	15.20	
_	Wedniu-idut autos, nos., as in	ib. 10.26	14.50	USP, powd., 165-lb. dms., 5,000 lb. lots or more lb. 2.36
-	Cadmium, CP yellow, ali shades, bi 100-lb. lots, frt. alid., E			syn., reid., 1-oz. lablets, cms. 1,000-
_	Dockles	, 20,	7.07	1 Complete oil well/www. 25-10.0000 IV.
_ 3.25	Cadmium fluoborate, liq. cond., or	.ib. 2.27	-	white, dms
3.25 3.25	medium-light shade, pole., serve	.ib. 3.22	-	Cananga oil, Indonesian, oins
-).				Candellia wax, cross, og
5.50	SUBOR, DOB-1 141 DIST	b. 4.60	-	Capric acid, comi, pure, unia
	Cadmium metal rigots or store	ib. 1.20	1.60	
-	Cadmium nitrate, purif., flake 40 dms., c.l., i.l., f.o.b. ship.	0-lb. pt.tb. 2.10	_	COS
-	dms., c.l., t.l., f.o.b. snip. Cadmium-selanide-lithopone, ord	aude'		1.o.b. shipping point
15.50	inght shade, bots., 400-20	ib. 3.97	4.00	Capryl Biconol sec. 82-88 18 talkol
_	I alaada bida gama canib.		4.50	Cancello acid, comi. pure tanksib
_	Cadmium-solenios trroporte, 190	. Ib. 6.77	6.80 6.30	Capsicum (see Pepper, 144).
-	ight shade, bbis., same Dans	e ba-		
-	Weginin light atlane" pries' over	lb. 5.72	5.76 6.40	pepper, ciris.
15.45		ole D. 7.47	_	500,000 pungencyb. 8.00

WEEK ENDING DEC. 26, 1986

n., ind., bulk, work-...ion 100.93 .0830 ate, precip., bgs.,ton 385.00 445.00 ite precip. medium, worke. ton 110.00 150.00 Carbon black, low structure, bulk, c.l. has.. c.l., surface bgs., c.l., works. ton 265.00 works.....b.
bags, c.l. worksb.
in terme diate-super-abrasion
(ISAF).....b. on 217.00 225.00 s.....ton conc.,reg.grada.77-iaka, bulk, c.i., ... ton 153.00 196.00 .210 .240 6, flake or pallet, bulk, 80-lb. bags ton a, liq., 100 percent ba-t.t., barge ton finetes bbis.

i.o.b.W. coast relinetes bbis.
Carbon disuilide, t.c., I.o.b. works ton
Carbon tetrachloride, CP, consumars,
dms, cl., Irt. alid. bb.
tech, dms, cl., tl., frt. alid. lb.
tech, dms, cl., tl., (fr. alid. lb.
tech, transport (mh. 4,000 gals.) 99.75 118.00 , USP, gran., 225-lb. ., (rt. equald......lb. lbs. or more f.o.b. 3.82 .24 nide, indust., anhyd. orks.....ton 400.00 450.00 ite, USP powd. t.l. .lb. 1.80 ride, lump, dms., 25--b. lots works....lb. chlorite, 100-lb. dms., loads ship,t. E. of Rock-100 lbs. 10.50 135.00 140.00 iow, bgs., ton lots.......b. Ceara, No. 1, yellow, bgs., ton b. 1.95 92.40 Ceara, No. 1, you to. 1018. tb. North Country, No 2, refined, bgs., ton lots. to. Cernsube wax, North Country No. 3, centrifuged, bgs., ton lots. 10 North Country, No. 3, refined, bgs., ton lots. 10 ton lots. 10 ton lots. 1 75 13.75 14.50 FCC dms., f.o.b. 1.55 5.50 1.10 50-kilo dms , f.o.b. 23.65 25.65 , NF, powd., pentahy-dms., 24,000 lbs. or 1 30 dried grade, same ba-32.75 henate, liq., 4% Ca., c.l., plant, E. of Rockles. . lb. ntolhenate, USP, 100-85 12.50 A units per gram 50-lb. cns to d-Carvone, 25-lb. drns , syn . . . lb. 8 00 Cascara sagrada bork bulk . . . lb.
Casein, imp., acid-precip. grd . 30mesh , Australian, odible,
same basis ct.f . . . lb
Australian, indust . same basis omplex, feed grade, 160 per lb., f.o.b., frt. øld., ps or more lb. psphate, dibasic, feed p, 18/2% P. bulk, c I., t I., 2.75 -1.365 Cassella acid, 303 mol. vrt., dris., frt. works ton 228.00 3 70 1.08 .85 Cassia, Korinti "A" bgs. b.
"B" bgs. b
Cassia oii Chinese, dms b.
Castor oi, raw, No. 1, Braz, tanks. b.
USP 5-9 dms. b.
refd. deod., 5-9 dms b.
blown, 5-9 dms. b.
dehydrated, bodied, tanks. b.
dehydrated, bodied, tanks. b.
Castor oil, acids dehydrated, dms. b.
ricincisic acid. b.
Castor pomace, bgs., container load.
(.o.b., Miami, Fils. ton
Castoreum, nat., cris. b.
sym., cns. b. bgs., c.i., l.i., works, frt. id. 100 lbs. 62 50 71.75 49.90 osphate, monobasic, ohydrale, food grade, , c.l., t.l., works, frt. ud........... 100 lbs. 50.50 .65 1.10 .79\> IF precip., bgs., c.l., frt. 100 lbs. 62.50 154.00 syn., cns. . . . lb. Catechol, CP, 45-kilo dms., 50-239 ate, hydrated, bgs., c.l., ate, paint grade (see Wollasto mild powd., 100-lb. dms., lb. horinated, 67-69% (see Toxaphene). 17.50 1.15 1.75 4.75 5.25 4.25 .46 37.00 Cedarleal off, dms......ib. Cedarwood oll, Chinese, dms..cns. ib. obromated, dms. syn., tech., 165-lb. dms., 00 lbs. or more ... lb. owd., 165-lb. dms., 5,000 1.80 2.36 3.50 1.65 2.00 2.65 17.60 1.90 2.10 .60 2.85 8., 1.070, dms. . . . lb., Indonesian, dms. . . kilo ax, crude, bge lb. , bgs. comi, pure, dms. rvde (aldehyde C-10) dms., 3.95

7 25

35.00

2.60

1.90

1.60

4.60

3.00

Cedarwood oil, Chinese, dms. cns. lb.
Texas. b.
Virginia. b.
Cadrol, prime dms. lb.
Cadrol, prime dms. lb.
Cedryl scatate, dist., dms. lb.
Calcary seed oil b.
Sava butryl content, bgs., divd. E. lb.
Calcary seed oil b.
Sava butryl content, bgs., divd. E. lb.
Calcary seed oil b.
Sava butryl content, bgs., divd. E. lb.
Sava butryl content, bgs., m monomer, flake, bgs., t.l., b, shipping point ib Cerkum hydroxide 90% CeO₈, dms. works.

77% CeO₉, dms. works.

b. Cerkum oxide, optical grade, bgs. 60b. tots or more, chvd.

Chise (see Calcium carbonate).

Chamomie florvers, Hungarian. cs.. b.

Floman. cs.. b.

Egyptian, whole.

Chamomie ob, blue, Egyptian.

b.

bus, Hungarian.

Chanopodism ol, NF, cns.

Chicago scid, dry. bbls., in alid.

chicago scid. tanks, same bassa.

cohol sec. 92-99% tanks,

ob. works.....b.

dd, comil. pure tanks....ib.

(see Pepper, red).

roll (see Capalcum oleoresin). okases osboco oleoresin, NF, from dom epper, dms. om African pepper, dms. 9.00 17.00 22.00 .64 .47 NF, from African pepper, the 500,000 pungency b. 1,000,000 pungency b. 1,000,000 pungency b. Carsway sed, Dutch, bgs b. Egypten, bgs b. Egypten, bgs b. Carbon black, turnece, fast extruding (FEF) bulk, c.l., works b. b. 68, c.l., works b. Chlorendio anhydride, tech., usres. 1.1., bb.
Chloringted paraffin, 40% chlorine. bb.
So% chlorine, sama base. b.
So% chlorine, sama base. b.
70% chlorine, restricus, 50-lb.
bgs., cl., dvd., Zone 1..., lb.

bgs., c.l., works. b.
general purpose (GPF), bulk, c.l.,
works. b.
bgs., c.l. works. b.
high abrasion (HAF), high structure;
bulk, c.l., works. b.
bgs., c.l., works. b. 2300 2600 December 29, 1986

2075 2375

3.00

2.97

CHEMICAL MARKETING REPORTER

ALI	FILLAL	
UΠ	EMICA	
DD	IVEC	
M	ICE3	4. 4. 5.

WEEK ENDING DEC. 26, 1986

Chlorinated parailin, Zone 2 prices are 1c, per lb. higher and Zone 3 prices are 2c per lb. higher and t.l. drum prices are 5c per lb. higher.

Chlorinated rubber, 5, 10, 20 cps. hgs.
t.l. divd. lb. 1.66 40 cps. bgs., t.l. divd. lb. 2.80 125 cps. hgs., t.l. divd. lb. 2.80 300 cps., bgs., t.l. divd. lb. 2.75 Chlorine, tanks single units works.
t.o.b., fr. equald. ton 195.00 200.00 Chloroscetic acid, mono, high purity,
11s ke, 9 9 % bulk 1.0.b.
works. lb. 56 2-Chloro-4-aminotoluene, lech. liq.,
dms., cl., t.l., i.o.b. works b. 1.88 o-Chloroscalline, liquid, dms., c.l., f.o.b.
works. lb. 1.63 -2.45 1.69 .34½ .34½ 2.25

tanks, same basis. ib.
tanks, same basis. ib.
p-Chloroaniane, solid, c.l., t.l., f.o.b. ib.
flake, dms., c.l., same basis. ib.
o-Chlorobenzaldehyde, dms. t.l.,
works. ib.
p-Chlorobenzaldehyde, dms. 2,000
ibs. or more, works. ib.
o-Chlorobenzoic sold, dms. 111. wics. ib
p-Chlorobenzoic sold, dms. 500-ib.
iols or more, works. ib.
Chlorobenzoic sold, dms. 500-ib.
iols or more, works. ib.
Chlorobenzoic sold, dms. 4000.
gels. dwd. ib.
lech., consumers, tanks, divd. ib.
NF tanks, mn., consumer. 4,000
gels. dwd. ib.
2-Chloro-4-nitroaniline, paste, commodity basis, dms., t.f., f.o.b.
powd., same basis. ib.
4-Chloro-2-nitroaniline, paste, 172,5
mol. wt., commodity basis,
dms., tl., f.o.b. ib.
powd., same basis. ib.
o-Chlorophenoi, dms., c.l., frt.
equald. ib.
p-Chlorophenoi, dms., c.l., frt.
equald. ib.
Chlorophenoi, dms., c.l., frt.
equald. ib.
Chlorophenoi, dms., c.l., frt. 3.08 3.15 2.25 2.70 2.00 2.40 1.25 1.70 1.25 Works. (b. Cholecalciferol, dry, 40,000,000 units 1.00

p-Chlor otoluene, (sch. tanks, works.

Works.

Works.

Cholecaiclerol, dry. 40,000,000 units per gram, kilo lots

Choline bitartrate, cryst., 98% min., 50
kilo dms., f.o.b. Springited, Mo., kilo.

Choline chloride, feed grade, 70% acqueous, i.c., i.t., dvd. E of Rockies b. 28

80% dry supplement, b. 38

Choline chloride, 80% dry supplement, butk hopper cars b. 38

bgs., 50,000 bs. min. b. 40

Choline chloride, pharmacautical, 50
kilo, lots, f.o.b. Springited, Mo. kilo.

Chotale chloride, pharmacautical, 50
kilo, lots, f.o.b. Springited, Mo. kilo.

Chotale dihydrogen chrate, 98% min., 50 kilo lots, f.o.b. Springited, Mo. kilo.

Chrome green, CP extra ight, bgs., dvd. E. of Rockies. b. 1,88

Ight, bgs., same basis. b. 1,70

medium, bgs., same basis. b. 1,70

medium, bgs., same basis. b. 1,72

extra deep, CP, same basis. b. 1,74

Chrome orange, CP, bgs., divd. E. of Rockies. b. 1,83

Chromium aceate, soh., 7½%, dms., sol., fr. equald. fb. 1,18

grd., same basis. lb. 1,09

Chromium aceate, soh., 7½%, dms., sol., fr. equald. fb. 1,18

Chromium aceate, soh., 7½%, dms., sol., fr. equald. fb. 1,18

Chromium aceate, soh., 7½%, dms., sol., fb. end in the first of the first or more person. Sol., 1,1,1,0,b. b. 1,45

Chromium aceate, soh., 1,1,1,0,b. b. 1,45

Chromium oxide, hydrated, 50-lb. bgs., c.1 b. 1,90

Chromium oxide, hydrated, 50-lb. bgs., c.1 b. 1,90

Chromium aceated, 50-lb. chs. b. 1,50

Chromium oxide, hydrated, 50-lb. chs., sol., 500

Chanamic alcohol, 25-b, cns. b. 1,50

Chromium oxide, hydrated, 50-lb. chs., sol., 500

Chromium oxide, hydrated, 50-lb. chs., sol., 500

Chromic acid, USP, hydrous, gran., 260-lb. chms., fd., dms., b. 5,50

Chris, dms., fl., def. b. 66

Chira, dms., b. 2,65

Citronelia od, Java, dms., b. 2,65

Citronelia od, Java, dms., b. 2,50

Citronelia 25-th cans., b. 2,50

1.18

dms. t.l. def ... ib. 86
Citric acid anhyde, powder be higher
Citronella cit, Jeva, dms ... b. 2.50
Citronella cit, Jeva, dms ... b. 3.85
Citronella cit, Jeva, dms ... b. 3.85
Citronelly ectate, dms ... b. 5.50
Citronelly fectate, dms ... b. 6.85
Citronelly formate, 25-lb. cns ... lb. 6.85
Citronelly formate, 25-lb. cns ... lb. 6.85
Citronelly formate, 25-lb. cns ... lb. 400.00
Citronelly formate, 25-lb. 200.00
C

1.40 3.16 3.40 25.00 2.10 2.10 2.10

CHEMICAL MARKETING REPORTER December 29, 1986

.86

1.15 110.00

7.40 6.50

	CMC, technical, 96% minknum, low madum vis., bgs., 24,000 it	/ Or 19		Cube root, powd., 5% rotenone, basis, 50-lb. bgs., t.f., works ib.	.60	_
W])%		Cumena, bulk, contract, f.o.b	1514	.1534
	basis detergant makers, f.o.b. manufa	10-	, -	Cumin seed, Indian, bgsb. Iranian, bgsib.	.97 .97	_
	turing point	/b64 cum)	-	Cyanuric acid, dms., c.l., t.l. (rt. equald	. 10	4 97
	Coaltar pitch, Indust., Jig., works . to	n 250.00	255.00	Cyclamen aldenyde, 50% min. alde-	1.16	1.37
	roofing, 140-155, Federal specific tion RP-381 Type 1, bu	/k		hyde content, dms b b b.	4.85 7.35	9.20
2,	Cobalt acetate, dms., t.i., frt. alid i	ນາ 350 00	- 4.25	90-92%, dms	7.85	-
- 1	Cobalt carbonate, powd., dms., fr	t.		Cyclohexane, bulk, barges, wksgal. Cyclohexanol tech., tanks, f.o.blb.	1.08160 .52	1.09150 .6612
$\langle \cdot,\cdot \rangle$	alid	b. 6.61 xr	8.16	Cyclohexanoле tech., tanks, f.o.b. workslb.	.551/2	
er end	more, ft. equald	. 415	10.55	tanks, divd ib.	.565	.58½ -
prices	Copait metal, 99.5-99.9%, 250-kilo) .	10.55	Cyclohexylamine, tech., tanks, works	85	_
	dms., f.o.b. NY, Chicago it Cobalt naphthenate, liq., 6% Co.). 7.00	-			
	dms., divd	208				-
	Cobalt oxide, imp., black, 72-73%	,	3.45			
	Co	9.51 9.78	Ξ			
00	Cobair phosphate powd, 32,1% Co		-			
	dms., dvdb. Cobait resinate fused, 3% Co	1.35	-	2.4-D acid. tech., 50-lb. bgs., c.i., t.i.,		
	dms	.381/2	-	l works, irt, equald	1.10	1.25
- 1	Or more, frt. alld. E Ih.	2.81	3.54	2,4-D butyl ester, tech., 55-gal. dms., c.l., t.l., works, frt. equald lb.	1.30	
ı	monohydrate, dms., frt. alld ib. Cobalt tallate, 6% Co., dms., divd ib.	4.56 2.16	6.02	tanks, same basis	1.25	Ξ
	Coccilians bark, bis. ib. Cocce butter, spot. ib.	.40	.45	2,4-D dimethylamine sait, t.c., t.t. works, frt. alid gat.	8.05	_
- 1	COCONUIT Oil (See Oils, Fats & Waxes me	2.05 rket report.)		Decyl alcohol, mixed isomers, tanks, divd		_
ŀ	f.o.b	.52	.58	Derfume grade, dans III.	.32 .75	-
:]	COUDIO CISUIIBO, Same basis ih	.54	.63	Defluormated phosphate (tricalcium), feed grade, 16% P. c.f., bulk,		
- 1	Cod oil, f.o.b., Gloucester, Mass., bulkgal.	6.50	_	I I.O.D. WORKS top 1	95.00 2	28.00
ŀ	Codeine alkaloid, NF, 25-kilo lots, .kilo. Codeine phosphate, USP, cos., 25-kilo.	900.00	-	tanks, divd. E	1.87	
- 1	1015	640.00	-	I WO I E: I ankcar sales require written auth	orization b	y Alcohol
	Codeine aulfate, NF cns., 25-kilo	775.00	_	Denatured alcohol, ethyl.		
	Copelba baisam, dms	6.60 1.50	7.25	SD2B, tanks, divd. E gal. SD3A, tanks, divd. E gal.	1.81	-
	COPAIGA OIJ. Chg., dms	3.75	-	SD23A, tanks, civd, E	1.76½ 1.86	-
	Copper acetate, monohydrate, cryst., tech., dms., t.l., works lb.	.71	.74	SD23H,tanks, divd. E gal. SD29, tanks, divd. E gal.	1.89	-
- 1	~PPOT UTUTIOS. (CUONO) 2004h. dms	•••		SUJU, tanks, divd. E	1.83 1.72½	_
١,	100,000-lbsper-year con- tracta, works	1.34	_	SD35A, tanks, divd. E gal. Denatured alcohol, ethyl, brucine formula	1.881/2	-
- 1	Copper carbonate, 55% Cu, dark, danse, 50-lb, bgs., c.l., t.l.,			SD40, tanks, divd. F and	1.83	_
- 1	WWK9	108.30	_	ethyl, optional formula, SD40, tanks, dvd. E	1.821/2	_
1.	light, fluffy, 50 lb. bags, c.f., t.l., works 100 lbs.	109.30	_	For annyd, sicohol on above formulae, pric	288 are 12c	. per gal.
l °	opper chloride (cupric), anhyd., c.i., works,		_	West Coast divd. prices are the same	og Engless	
٥	view cyalikus, team, anns, barban.	.90	-	except in Idaho, Oregon and Wast differential on tankcars is maintain		ere a 5c.
0	lb. lois or more. opper fluoborate, (cupric), liq. conc.	2.30	2.62	i Cesuxysprisonie hydrochloride (See Mei	sa. hamphetar	nine hv-
	equald			Detargent alkylate, straight chain do-	-	
0	4449 UUGANMB. PCX; OMA 96.B	.82	-	Decymenzene, tanka, harges		
0	om, frt. equald ib ib	6.50	-	l.o.b	.45	-
	divd., domesic, basis	.621/2	_		26.04	-
1	QMOR 117. 2001. Do.	1.19	_		27.43	-
	dms., t.l., works	.4314		Dextrose, anhyd., coml., bgs., c.l., dvd. New York 100 lbs.	11.10	_
l°	opper oleste, solid, 6% Cu. dms., works intaidb.		-	dhe Nous York bgs., c.f.,		- 1
0	uppai uxiua, piack (ciintic) dom	.97	-	I Desilose, avarated comi hos a i	6.50	-
	red (cuprous), dms., 97%, USN Tupe	1.21	-	Western zone 100 lbs. 2	4.25 5.60	- [
	1, (AA), 80,000-lb. lots, worksb.			i Diacotone Biconol, Agelone tree		-
٦		1.19 1.15	1.20	tanks, divd	.52 9.25 1:	5.00
	opper-o-quinolinolate, 10%, liq.	2.52		Diammonium phosphate, fert. grade. min. 18% N. 46% P. bulk, c.l.,		J
c	4444 Buridue, CIVIII., Bentehurbata	4.02	-		0.00 14	5.00
	99% bgs., c.l., f.o.b. works 100 bs.	46.45	_	Diammonium phosphate, feed grade, 18% N, 20% P, bulk. c.i., f.o.b.		
- }	works Cryst., dris., l.c.L.	60.00		bre sema basis	0.00	- 1
- 1	invitation applications of		-	Committee of the comm	0.00	-
1.	works 100 lbs. basic, bgs., c.i., works 100 lbs.	75.10 88.30	-	BQUARD 100 lbg 5	2.50	
	orlander of, USP, Oms		34.00	I TOOU YIADB, DGS., C.J., 1.L. SAME he.		-
l a	om of (See Olla, Fata & Wayse and a		.37	I SIN DISTRICT BRIDDONNOL MIN OF KAL	7.76	-
ΙĞ		port).		tanks, works	1.04	-
] c	orn oil acid, dina	.13½ .50	.14	fri. alid	.97	-
	tenksib. orn syrup 43 Be., tanks, f.o.b.	.32	.40	o-Dianisidne ditrydrochloride 100%	7.00 E	3.00
		11.22	11.43	2,6-Di-tert-Bulyl-p-Cresol (see Partition 11)	4.25	- 1
	Ormore Costate, USP, dms., 5 kilos				ıı oxytoluen	18)
8	XIONESSCION (See City Fals & Waxes		prt.)	Dibutyl malesta lanks (p.b. works)	.77 .63	.85
G	ottonseed oil, acidulated (see	arket report.)	Dibutyl sebecate tenks, worksb.	.54	.64 .60
}	N.Y. acid, 95%, lanks,	.13			10	.89
	tanks	.63	-	2-5-Dichloroaniline, (lake, dos.	.08	-
C	VICIOUS IN A. CIVIII NUMBER OF LOS	.55	-	fused dms works		-
Cr	sam of tartar (see Potensium blesses)	6.00	6.20	Communication to the second states and the second states and the second states are second	.80	-
~	LO.b. works			o-Dichlorobenzene, tech 80% dans	.46 1	.57
		1.15 1.134	1.18 1.17	Who L.L. CIVO	.52	_
	Cresol, 95-98%, drns 11 10 b 5	4.31 1.71	-	98% refd., driss, c.l., same be, els.	.45	-
	Cresol, 99%, dime 11 (a.b. ib.	1.65	-]	p-Dichlorobenzene, graded 300 lb	47	: 1
		.94 .82	-		.61	.52
	Nosu, 537 puns, ams., t.l., 1.0.b. b.	.87	-	2,6-Dighloro-4-nitronalitae		.47
Ι,	bulk, Agrae hoose	.75 .87	-	Dichlorophenovyscovic and four Reliability	.30 .	. [
PC	neaus boras dans il in b	.75 1.22	<u> </u>	Dicyclohexylamine. down of		
	laylic acid, coaligr, com meterere		1.15	tanka, same boole	.35 -	. [
	CONTENT ROOMS 25%, posts and	•	1		.25 .	-
C	tricresyl phosphate grades, tanks, int. and	.58	_	Dicyclopentagiene, high-purity, 67	.25 -	
	25% Origen James In the Content		- , l	Diethanofembre tenks for an an ab.	.35 .	_
	divid	.58	- :		.34 .	36 '
Cry	divdib. olite syn., bulk, c.l., works ton: 5	1.50 10.00 ss	0.00	DDVP (see Dimethul dishless 10.	41	- 10
ORT			-wu	Diethyl perbiturio acid (see Barbital).		

				- King
_ .153	Conditional little 1.12 Alms -1	1.40	•	
	tanks, divd	1.18	:	
1.37	works	· 1.80	_	1
9.20	works	97%	.88 	1
.6612 .581/2	worksib.	2,48	-	}
- -	Isomer, dms., t.l., f.o.b.			1
	dnis., c.l., f.o.b	3.18 3.10	-	-
	tanks, same basis	1.15 1.02	=	3
	tanks same basis	1.83 1.75	:	:
1.25	Di-2-ethylnexyl azelate (see Diociyl azel Di-2-ethylnexyl phthelate (see Diociyl pi Diethylnes glycol, tanks, divd. E ib.	hihalale).	•	
-	dms. c.l. for all d. E.	.291 ₂ .65	.31%	
-	tanks, frt. alld E lib. Diethylene glycol monoathyl ether, dms., c.l., frt. alld. E lib.	.57 .64	-	
-	Diethylene glycol monomethyl ether, dms., c.l., frt. alld.	.56 .62	-	
8.00	Diethylene glycol monobutyl ether ac- etale, dms. c L. dlyd E. lb	.54	Ξ	
_ Alcohot	tanks, divd, E	.80 .72	-	7
	Diethylenetriamine tanks forb	.80 .72	•	
-	worksib. Diethylenetriamine pentaacetic acid, pentasodium sait solution.	1.60	1.61	
=	tank- cars/tanktrucks, frt- equalized	.45 2.60	3.00	
-	Digiyool laurate, dms., ton lots lb. Digiyool stearate, dms., t.l lb. Dihydrazine sulfate, dms., works. lb.	.32½ .62 1.10	.73 1.25	
_ Dor onl	Dihydrostreptomycin sulfate, bulk kilo. Dihydroxyacetone, 50-kilo lots, workskilo	48.00 40.00	-	
prices,	Di-isobutyl ketone, tanks, divd ib. Di-isobutyl phthalate tanks, divd. E. ib.	.60 .55	- .57	
e a 5c. Ine hy-	Di-isobuty/ene, tanks, f.o.b. Hous- ton	.37 .40	.401/1	
•	Di-isononyi phthalate, lanks, divd. b. Di-iso-octyl azelate, tanks, divd. E ib. Di-iso-octyl phthalate, tanks, divd ib.	.40 .99 .40	1.07	
-	alid	.66½ .58½	-	
-	Di Isopropytamine, dms., c.i. divd., ib. tanks, same basis	1.17 1.07	:	
-	frt. alid	1.89 7.00 15.80	8.25	
- -	ib. dms,	6.95		
<u>-</u>	Dimethyl carbonate, dms, t.l., 1.o.b. works. Dimethyl dichlorovinyl phosphate, 55-	.90	-	
.00	gai. dms., f.o.b b. Dimethyl sthanolamine, anhyd., dms., c.l., divd. E ib.	1.80	1.90	
.00	tanks, divd. E	1.07 .38	1,10	
_	Dimethyl phthalate, tanks, f.o.b worksb. Dimethyl sebacate, tanks, f.o.b	.65	-	
_	works	2.48 .57	2.68	
	works	.46 .59	-	
-	Dimethyl sulfoxido, tanks, works ib. Dimethylacetamido, bulk f.o.b, ib. Dimethylamine, 26% soln., tanks, fri.	.78 .87%	-	
00	equald., 100% basisib. 40% soln., tanks, frt. equald., 100% basisib.	.63½ .63½	-	
)	anhyd., tanks, frt. equald lb. N.N-Dimethylanitne, I.I., f.o.b lb. t.I. dms lb.	.54% 1.03 1.11	=	
85 84 80	N,N-Dimethylformamide, dms., c.l., t.l., f.o.b., works	.57 .49	:	
99 1	2,4-Dinkroaniline, tons-lots, f.o.b ib. Dinkroaniline, orange toner, CP, bgs., dlvd. E. of Rockles ib.	1.22 5.20	-	
	 2,4-Dinitrochlorobenzene, crystalizing at 47°, t.l., f.o.b. Charlotte, 	.98		
7	N.Cb. 2,4-Dinitrophenol, 250-lb. dms., f.o.b. Charlotte, N.Clb.	1.95	-	
	Dinitrotoluene, mb., tech. f.o.b. works	.30	.43 _	
	works	1.25 1.20 .61	.70 1.04	
2 7	Diociyl azelate, tanks, divd. E b. Diociyl phthelate, tanks, divd ib. Diociyl sebacate, 99%, tanks, f.o.b.	.99 ,40	.45	
	worksb. 1.4-Dioxane, tanks, frt, aid. Eb. t.i., same basisb.	1,47 1,13 1,21	-	
	Dipentarythritoi, bgs., c.l., t.l., divd. E	1.42	_ en	
:	Fig. works	.25 .25	.39 .28	:
6	dom., 1,000-kilo lots, dms.	0.00 2	4.00	•
	Diphenyi, 99,9%, bgs., c.l., t.l., works.	.74 .65		
	tenka, worka	7		r j

heayloxide, tech. grade, tanks lb.	1.11	1.20	Εp	Mehinia seed stri est i estal	ricch
henylamine, resultsID.	1.25	-		100-gram lotsgram .60 – poxy rosin, liquid, bulk tanks, divdlb. 1.31 1.41 Solid, boan, t.lb. 1.28½ 1.33½ Fe	rric nii
molten, tanks, works.	1.00 7.68	_	Ep		rric o
works has it fit alid.	2.52	_	<u>ן</u> "	dms., t.f. or mixed t.f. f.o.b.	rric o: rric pt
description USP.	5.00	5.60	E	ster gum, gum-rosin type, dms., c.l., dwd., lk., Md., Ky., E. States,	итс р
phenyinydantolar-social ib. dms	0.0-			Minneapolis, N.C., Ofilo, 81. Louis, St. Paul, Va., W. Va. Ib75 - Fe	ando i
alid.	.91 .40∨₂	_ .42½		ster gum, wood-rosin type, dms., c.l., same basis	wric s
propylene grycor monormany datable.	.54	-		dlvd	gs., C.I Brric i
tanks, same basis.	.46 2.92	-	- 1	thyl acetoacetate dms., c.l., divdlb. 1.13 - tenks, divdlb. 1.05 -	BITIC
fri. ald.	3.11	_		Ethyl ecrylate, tanks, frt alld lb	c. per
e-toyuli hourse, lib. (i., irt. alid	.64 .61	.65 .65	1	Firee, tanks, divd. E gsi. 1.35 Ethyl alcohol, absolute, 200 pf., tax free prices 12c. higher	erric-
Mnylbenzene, 10078 Dasis, Izilko	2.75	2.60	[than 190 pf., tax free. Ethyl alcohol, fermentation, tanks, f.o.b, worksgai. 1.08 1.28 F	erric
dms, 100% basis	3.00 .76√₂	2.70 -	١,	Price range attributable to various state tax incentives.	
odecanyl succinic annyonce. ons	.88	-	11	Ethyl p-aminobenzoate, NF (see Benzocaine). Ethyl benzoate, dmsb. 1.35 1.50	agri
odecylpenzene (see Detergent Alkylate odecylphenol, tanks, min. (rt. alld. E	,. .48	.53	_	Ethyl bromide, tech., 98%, dms., c.l., fd. elid. E	Ferrou
has, coalter, certified colors for food, drugs and cosmetics, 100 lb.				Ethyl celluloga standard vis., 7 cos.	Ferro
and over, frt. prepaid or alid.	21.20	22.60		standard vis., 10, 20, 45, 100 cps.,	Ferro
No. 2	29.16 49.50	29.22 65.00	- 1	medium vis., 50, 70, 100 cps., 13., frt. equald. Eb. 4.25 –	Ferro
Red FD&C, No. 3	24.00 7.45 6.45	24.60 7.85 6.75	ł	USP vis., 7 cps bgs., i.i., m. equald.	hep
No.6	0.40	0	1	USP 10,20,45,100 bgs., t.l., frt. equald. E	mo US
divd.	38.50	_		Fri. equald. E	cry Fir of
No.6	42.80 18.85	-		tanks, frt. alid	Sib Fish (
Ko 17 Ib.	38.90 38.25	:		Ethyl ethanolamines, mixed, dms., t.i., divd. E b. 1.23	kei ligi
No. 22 Ib. No. 28 Ib.	12.45 59.95 48.95	-		tanks, dlvd. E	ter Fish
No. 33 Ib Yellow, D&C. No. 7 Ib. No. 8 Ib.	21.00 20.55	-	l	2-Ethylnexolc acid, oms., c.l., t.l., divd.	
tio.10	48.80 35.25	48.85	•	tanks divd. E	lm
Dyes, coaltar, for general use in cloth and paper dyelng (by Color in-			Ì	mixed, tanks, irr. alio. E ib	Fluo
dex Name), f.o.b. works A Bik 1 Blue black ex. conc	5.75 5.46	:	ļ	Ethyl lockide, cbys., works b. 6.25 — Ethyl linalool, syn. 55-gal. dms b. 10.80 — Ethyl linalyl acetate, syn., 55-gal.	Fluc
Oyes, A BI 9 Blue 2G 1b. A BI 45 Alzanne Blu SAP 150% . lb. A BI 90 Alzanne Br. Cy G lb.	19.85			dms	N N
ABI 113 Navy 5R	6.55 22.12	Ξ		equald	N
A Or 7 11	3.72 4.00	-		alid	Fluc
A Or 10 Wool Or G	6.15	=		works	
AR 20 lb AR 14 Azo Rubine 133% lb AR 18 Scarlet 4R Conc. lb	. 8.85	Ξ		Ethyl parathlon (588 Parathlon, 567).	
AR 88 Fast Red A. Conc Ib AR 151 Silk Red 3B Conc Ib). 6.85). 4.60	-		Ethyl silicate. 40% available SIO ₂ , dms., tl.,f.o.b. workslb. 1.45 1.45 tanks, f.o.b. works	
AV 17 5BNS Conc). 9.75). 12.22	-		N-Ethyl-m-loukline, tech., tiq., dms.,	For
AY 17 Fast Light Yell 2G It AY 23 Tartrazine Ex Conc It), 10.10	-		tanks, same basis	Fa
8 819 Zinc Free	D. 4.42	-	-	Ethyl vanillin 100 ib. dms., 500 ibs. tb. 13.50	Fn
BGr 4 Malachite Green Crystal I BV 1 Methyl Violet Crystals 1	b. 6.90 b. 6.80) -	•	25 lb. dms., 500 lbs. or more lb. 13.75 100 lb. dms., less than 500 lbs lb. 14.00 14.50 Ethylamine (see Mono-Ol- and Th-)	Fu
BY 10 Rhodamine B Ex I BY 2 Bond Yell SFA 150% I	b. 10.98 b. 10.10		-	N-Ethylaniline, dms., C.I., L.I., 1.0.b. 1.66	١.
0811 Sky Blue 6B Conc	b. 9.2	5 -	-	tanks, same basis	Fi
DBI 8 Azurine G Conc	b. 2.8	5 .	-	Ethylege contract divid b 18	1"
0 Br 230 Resin Fast Brown BRN 200%	NB Ib. 7.2	3 .	-	Ethylenedamine, 99%, tanks, f.o.b.	
DGr 26 Resin Fast Green GL DR 2 4B Ex. Conc	1b. 91 1b. 79	ě	-	Ethylenediamine dihydriodide b.	Н
DR 31 Brilliant - Red 12B Conc DR 80 Fast Red 8BLN	lb. 6.1	5	-	trasodium sait, sout., i.u., i.t.	1
DR 81 Papor Red 8BLP DR 251 Fast Scarlet AV DOr 102 Fast Orange WSP LIQ	lb. 6.2	26	-	Ethylene dibromide dms. c.l., (rt., 36 .46 equald	1
WS. Conc. 150% D Y 4 Brilliant Paper Yoll 3	ib. 11.2 GX	25	-	Ethylene dichionde, taliks, 13.5517 .1714	- 18
125% Brilliant Paper Yell 3GX Lig	. Ib. 4.1 . Ib. 1.1		=	Ethylene glycol, Riguet., terks, it31	ľ
D Y 11 Stilbene Yellow GA. Conc. D Y 41 Fest Yellow RGL. Co	. Ib. 3.	03	-	Ethylene glycol, monocutyr ethor, tanks, dwd. E	1
200%DY 27 Resin Fast Yellow L5G	. lb. 9. . lb. 14.		-	Ethylene glycol monosthyl ether, tanks, dvd. E	
Dis R 1 Scarlet BA	.lb. 4. .lb. 21.		-	tanks, alvoi monohityi ether 80-	-
Dis Y 3 Yellow G Dis Y 54 Yellow 3G Dis Or 3 Orange GPA	.ib. 6	.65 .84 .91	-	etate, tanke, int. and. c	
Dis Or 3 Orange GRA Dis Or 37 Orange OB Dis V 1 4RN Paste	.1b. 3	.77 .85	-	Ethylene glycol monomathyl ether ac-	1
Dis V 26 Bordeaux BV 200% Dis B1 27 Blue BG1 F	.lb. 17	.25 .05	=	Ethylene oxide, tanks 1.0.D	1
U4 B1 102 Blue GFDA 300%	lb. 22	.80 .10 .50	= .	Eucalyptol, Nr. pms. Portoglosos kilo 3.66 -	l
V G 1 Jade Green Double Paste V 8k 25 Oilve TA Paste	. lb. 5	3.85	<u>.</u>	Eugenol, USP, dms	-
					-
		٠.			.
			٠.		
Endrin, lech., 95-99%, dms., t.l.	. h.	7.00	_	Fennel off, sweet, USP, ons	: . :.
Inte	JU-QZ.	1.25	-	Fennelseed, Egypt b. 97 95 ndlan 97 95 ndlan 95 95 95 ndlan 97 95 95 95 95 95 95 95 95 95 95 95 95 95	
Ephadine hydrochloride, NF, o less than 1,000 kg. Ephadine sulfate, USP, cryst.	rysi	8.25	40,25	Ferrio chierde entryd., tech., 350-tb. Ferrio chierde entryd., tech., 350-tb.	
epnadrine sulfate, USP, čryst., less than 1,000 kilos Epidricrohydrin, tanks, divd	., kilo 4	3.00 .86	45,25	Ferrio chloride antiyot, recht, 100 lbs. 36.00.; dms., cl., works. 100 lbs. 36.00.; Ferrio chloride, 42 lbs., photo grade. dms., cl., works. 100 lbs. 9.10	
www.julini.testike, divd	(10.		in in		1 1

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١	Fen	ric ni	work	8 Cryst.,			ton	17	6.00 .64	265.0 -	0			
1			xalate	, tech. works	, gran.	, 50-k). dm.,		1.65	_			yı	
١	Fen Fen	ric o ric o	xides hosch	(800 iro 1 810. FC	on Oxid CCalni	des). Bolubi	B DOW-						A	l
1		_	der,	dms, 1 nosphe	0,000	lbs	lb		1.10	1.1	15		7	l
l			pear	18, 50 l ata, pi	b. dm.		b		1.11	-	•			
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	bg	8 C	J., wo	rka works			to:	n 14	41.00 17.00	-				•
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er.	"	M LINC	250	Hb. dn	ıs., t.l.,	1.0.b.	work	6.	.42		_	_2	92 jelly 20 jelly	Ì
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	1		800	itic aci ilium s ., t. t., f.	alt, 80	In., 4.	5% F	e,	.55		_		i 35 jeliy I 64 jeliy	
	١	agr	tcultui	ral grad 1,5%	ie, soc	a mult	alt sol	u-				1	192 jell 222 jell	ľ
			WO	rka oborali				lb.	.64	1	-		261 jell 283 jell	y
			WC	rks, fri consid	. egub	Id		ID.	.64 2.29		-		315 jell 47 jelly	y
	\ F	eno	IN BUC	BPhthe	ınate.	uq., '	870, r	θ.	1.17		_	ı	379 jell 411 jell	y
	F	епо	NAS SU	na., div Kate, I	noist,	bulk,	t.i. 1.0	.D.	30.0				444 jel 477 jel	١
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		m	mohw	orks drate, (orks	oran., I	bulk.,	t.i., r.o	1.D.	170.0		0.00	G	ycerine	
	ı	US	RP. DO	wd. 40 50-lb.0	00-lb. c	ims		IQ.	.4	9	-		USP, C	
V2 V2] F	Firo	i, Can	ada da dms ,	Ng			. ID.	10.0	0	-	1.	Syn. 9 Syn 9	ľ
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	١	Bo	ht co	ld-pres	580. Q	M9., C		. ID.	.3	14 16	:		Hycolic	
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-			uctos	e, crys	1., 18,0	300 KI	ios or	lb).).	.90	1 03	3	Inc	,
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.3		el.	٧ رايو	100	Ď	-ilor	ė kara	20	198	3:		CHI		

	WEEK ENDING DEC. 26, 19	986	
Ų	liue, bone, extracted, graen, jelly-		_
- 1	grams, bgs , c.l lb.	_ .86	-
- 1	85 jellygrams, bgs., c.l., 1.0.b lb.	.78	_
- 1	115 jellygrams, bgs., c.l., f.o.b lb.	.77	_
- 1	135 jelygrams, bgs., c.l., f.o.b lb. 164 jelygrams, bgs., c.l., f.o.b lb.	.79	_
- 1	192 jelygrams, bgs., c.i., i.o.b lb.	.87	_
- 1	220 jellygrams, bgs. c.l. f.o.b 1b.	.93	_
- 1	Glue, hide.		
- 1	108 lellygrams, bgs., t.l., f.o.b No.	.80	-
- 1	135 jellygrams, bgs., t.l., f.o.b lb.	.85	-
- 1	164 leftygrams, bgs., t.l., f.o.b., lb.	.00	-
ŀ	192 jellygrams, bgs., t.l., f.o.b lb.	.95	-
1	222 jellygrams, bgg . l.l. (.o b lb.	1.00	-
ľ		1.05 1.10	
- 1	283 jellygrams, bgs., t.l., f.o.b lb.	1.15	_
	315 jellygrams, bga., t.l., I o b lb.	1.20	_
- 1	347 jellygrams, bgs., t.l., f.o.b lb. 379 jellygrams, bgs., t.l., f.o.b lb.	1.25	-
- 1	411 jellygrams, bgs., t.l., f.o.blb.	1.30	_
	444 jallygrams, bgs., t.l., f.o bib.	1.35	-
- 1	477 jellygrams, bgs., i.l., i.o b., lb.	1.40	-
- 1	Glutamic acid. 9972% dms., 10070.		
1	icte int suici	6.65	-
	Glycerine, nal., refd , USP, CP 99Vt%		
	Lanks Civo	8917	-
1	USP, CP, nat. 95%, tanks, divd. 1b.	.874 8912	_
- 1	Syn. 95%, tanks divd lb	.91	_
- 1	Syn 99.5% tanks divd	.31	
	Glycine (see Aminoacetic acid)		
•	Glyceryl gualacolate 100-lb fib dms.	14 50	_
	Glycolic acid (see Hydroxyacelic acid)		
	Glyoxal 40% soin., bulk, tanks.		
	divd	.4472	-
	Grape truit oil, Fla. drns	3.00	-
		3 00	_
	lergeli	3 00	_
	Graphite, amorph, powd bgs dms by whise	16	40
	exwise		
	cryst., 88-90%, powd , bgs , dms ex whse	.30	.60
	Graphite, cryst . 90-92%, powd . bgs		
4	dms. ex whso lb	40	.75
4	95-96% powd . bgs . dms ex		
4	t when 10	60	.90
312	Graphite amorph . cryst. 97% and up.		
8(powd ogs oms ex	80	1 20
	whso	00	
0905	Graphite, Ilake, No. 1, 90-95°a, bgs.	65	75
	dnis .ex whise		
1065	i whea . ID	65	75
	Grease (See Oils, Fats & Waves market	report)	
1025	Grease of (See Lard oil)		
1060	Current tech 500-lb dots 24,0000		
-	min t.o b Wallingtoru.	270	_
_	Conn	375	_
		3.5	
-	Guar gum, edible, bgs., c.l., f o b ship't.ptb.	50	75
-	Indust. bgs., high viscosity, C !		
03	same basis	.50	.85

1			
1			
Į			
:		2.00	8 25
١	Heliotropin, dmslb.	8.00	0 23
١	Hemiock oil (see Spruce oil). Hembare leaves, bis	.55	-
- 1	Hentane inclust., lanks, 1.0.0. Beau-	1.07	_
	mont, Texgsl. 95%, tanks, f.o.b. Houston.	1.07	_
. 1	Tov	1.18	-
• '	Contrarais acid syn., tanks, f O.D	.65	-
	Liberariacenni, svn., tenkis, I.O.D	.431/2	-
	Hexahydrophthalic anhydride, tech. dms., l t.l., (.o.b. works b.	1.42	-
	Lieu americularia tatramina, Offin, DOS.,		
	of the works	.65 .69	_
	gran. dans., c.l., tl., works lb. pdr. bgs., cl., tl., works lb.	.60	_
	could dims. C.L. U. WORKS HJ	.63	
	Linuage inchest ISBKS, WORKS	1.01	1.15
	95%, tanks, f.o.b. Houston, Texgai	1.12	. - .
	Littlewood our tooks LO.D	.50	, -
	I DAVU AICONOL MIXEU ISCINGIO	33	
	16CVB	.32	
	p-Hexyl methacrylete, dms. c.l., works	.751/2	
	Hamilton chicol Innks, (NVI)	.50	
	LIAM AND APPROXIMATE LIST DITIES. SUTTO TO THE	30.00	· •
	or more, irt. eld		i de de
	100-07 IOR COR	10 25	11.30
Ċ	. 1	9.70	10.70
٠.	250 oz. tota, bota	25	.28
	I randonia huninta. Outo, i-la ""		
		1.54 1.81	(4.5)
	65-gel, dms., LL, frt. e8d		
B		7,50	· •
9	The second second control of the second seco	. 65	
ľ	dms. C1, 1.0.0 2010	.80	gart (m.)
Ü	1	387	
Ξ.	f.o.b.	.xoyr Haininin o	,
١.	Hydrocitionic acid, annia, case into our	N . Alexandre	
_	THE PROPERTY OF DEPORT	TERL :	31 - A

CHEMICAL MARKETING REPORTER

26.00

CHEMIC PRICES

WEEK ENDING DEC. 2	6, 1986)
Hydrochloric acid, 20° Be, tanks,		
Works, East	65.60	65.00
MICHAESI	የበብ ስ	70.00
Guir Coast	6700	_
Wast Coast ton 22° acid, same basis, East. ton	90.00	105.00
Midwest	68.00	78.00
Gulf Coast ton	66.00	70.00
West Coast	63.50 100.00	116.00
NOTE: Prices vary and are either freig	thi collect to	alahi asus
1464 OBDANKING ON DYNA KAP AY	rit conect in Minestina	orgini octor
"ITU COM USUND ALGIANA, MUSICINA		
OMS. 25 kilos or more overs	.70	_
PYCHOCUNISONS, SICONOL Micronizad		
	-70	-
Hydrofluoric acid, anhyd. (see Hydroger Hydrofluoric acid, aqueous. 70%	n liworide)	
tanks., f.o.b. frt.		
tanks., f.o.b. frt.	43.00	
Hydrofluositicie acid. 15-cal. dms. 11	10.00	-
works, 30% basis, ton	-	_
equald	190.00	210.00
Hydrogen bromide, snhyd. cyte., extre,		
30,000-l09., f.o.b. works lb.	7.00	-
c.l., works	.65	-
600-lb. cyls., c.l., same besis lb. Hydrogen chloride, anhyd., tube trail-	.62	-
ers, seller's trailer, min.		
	.37	_
TUDE ITABLE DIMAP'S ITABLE IN	.27	_
		_
works ton Hydrogen cyanide, fig., 99.5%, tanks,	270.00	-
nydrogen cyanide, fig., 99.5%, tanks,	_	
Worksib. Hydrogen fluoride, anhyd., tank cars	.60	_
0.1., f.o.b., frt. squaldb.	0075	
Hydrogen peroxide, 35% tech., tanks,	.6875	-
Works it couple 5	.2325	
50% tankcars, frt. equald (b.	.3225	-
70%, tankcars frt. equald ib.	.45	-
50% tankcars, int. equald b. 70%, tankcars int. equald b. Hydrogen sulfide, liq., 98.25% mln.		
	.12	.13
170 lb. cylinders lb.	2.27	_
Hydroquinone, photo grade, consum-		
ers. c.l., tl., divd ib.	2.64	-
tech., dms. c.l., dvd lb, Hydroxyacetic acid, tech., 70%, tanks.	1.95	-
	.491/2	_
TIPLE CONTROL PROPERTY SUITAGE CONS F.L.	.7072	-
	.83	_
p-Hydroxybenzene svilonic acid (see p-Ph Hydroxybutyl methylcellulose (visc. 12,600 cps.) 50 lb. begs. it., cl. 30,000 lb. min. died. zone	enoisutionic	ecid).
nyoroxyouty) methylcellulose (visc.		,
30 000 lb. mis . 50gg, N., Cl.		
30,000 lb. min., divd., zone		
Hydroxyolironelial dimethyl acetal,	2.10	-
dmsb	16.55	
p-Hydroxydiphenylamine, dms., t.i.,	· J .00	-
TO U. HUIKS	4.10	_
TYCE OXYCH CORENNI.		_
natural, dma	9.40	-
	13.60	-
SVAL dins	14.80	-
extra grade, drns. b. syn., drns. b. Hydroxyethyl cellulose, LL, dwd. b. Hydroxyethyl methydreth draw hide	9.50	
Hydroxyethyl methylcellulose tylec	2.07	2.12

Hydroxyethyl cellulose, LL, dkd......lb.
Hydroxyethyl methylcellulose (visc.
5.000 through 45,000 cps.) 50
lib. bags, LL, c.L., 30,000 lb.
min. dkd., zone 1 lb.
Hydroxypropyl methylcellulose, premium, U.S.P. (visc. 4,000
through 15,000) 50 lb. bags,
t.L. c.L., 30,000 lb. min., dkd.,
zone 1 lb.
Hydroxypropyl methylcellulose, U.S.P.
(visc. 50 through 100 cps) 50
lb. bags, t.L. c.L., 30,000 lb.
min., dkd., zone 1 lb.
Hydroxypropyl methylcellulose (visc.
4,000 through 15,000 cps) 50
lb. bags, t.L. c.L., 30,000 lb. m.,
ckd., zone 1 lb.
Hydroxypropyl methylcellulose (visc.
50 through 100 cps) 50 lb.
bags, t.L., c.L., 30,000 lb. min.,
dkd., zone 1 lb.
8-Hydroxyquinoline (see Oxyquinoline)
Hypophiosphorous acid, punti., 50%
dms., c.L., works lb. 2.73 2.87 2.99 2.17

| Ichthammol. NF. 200-kilo dms. | ib. | 4.25 | 4.50 | Iminodiacatic acid, 96% min., dms. | c.l., l.l., works. | b. | 3.00 | - | Indole, dms. | ib. | 25.60 | - | Indole, dms. | ib. | 17.50 | 22.00 | Indole, crude, dms. | kilo | 17.50 | 22.00 | Indole, crude, dms. | kilo | 13.50 | 18.00 | Id. | 14.21 | Id. | 14.59 | Id. | Id

CHEMICAL MARKETING REPORTER

3.15 _

equald ... b.
Isatoic anhydride, bgs., f.o.b. works b,
Isoamyf alcohof, 95% tanks, frt. 1.44 7.25 .80 1.48 1.15 .42½ .87 3.10 3.45 3.50 .43 .35 No Prices .75 5.60 refd., 95%, tanks, divd. gal. 1.38
refd., 95%, tanks, divd. gal. 1.31
refd., 91%, tanks, divd. gal. 1.25
lsopropyl ether, tanks, divd. lb. 44
crude, tanks, divd. lb. 37
lsopropylamina. (sea Mono-, Di- or Tri-).
Isopropyl myristate, dms., t.l., E. lb. 1.f9
ltaconic acid.retd. bgs t.l. lb. 1.45 1.50 1.48 Kaolin, water washed, fully calcined, bags c1, t.o.b. Georgia ... ton Pwd., coëloidsi, bacteria controlled, 50 ib. bags., 5,000 ib. lots... ib. 24
Kaolin, uncalcined No. 1 coating, bark, c1, f.o.b. Georgia ... ton No. 2 coating ... ton 75.00 No. 4 coating ... ton 70.00 filler, gen,i purpose, same basis... lon delaminated water washed, uncalcined paint grade 1 micron avg. same basis... ton dry-grd. siriloated soft, same basis... ton 60.00 1.20 1.12 1.26

1.06 .62 1.03

Pecember 29, 1986

Lake C, red toner. (red 53) bbis., frt.					
ellci	5.70		Lithium hydride, c.i., t.i., divd. 10,000 or more		
Lanolin, anhyd., cosmetic. 400-jb. dms., worksb.	1.18	1.25	dme cl il sher		-
pharmaceutical, 400-lb. dms. workslb.	1.15	-	Lithium metal, 1,000-fb, lote or many	1.07	-
tech., (under 2% f.f.a.), 400-lb. dms., worksb. Lard (See Oils, Fats & Waxes market re	1.08	1.13	Lithium nitrate, tech, done 100 h.	22.70	-
Lardoli, No. 1, dms., c.l., i.o.b b. tanks, same basis	.34 .28		Lithium stearste has all fu and b.		-
Lard of, extra, winter-strained, dms., c.lb.	.41	_	Lithol red toner, barium doe for	3.09	-
tanks, same basisib. prime, burning, dma., c.i., same ba-	.33	-	alid	3.27 3.50	-
sis, Chicago	.43	-	Litsea cubeba oil dms	5.60	_
NOTE: 300 Ml. rad. 114c. higher, excep	.35 1 Texas, 2	_ c., and West	2.4-Lutiding dms. 11 fd gaussid bits	2.78 4.75	6.00
Coast, 3c. higher. Laurelleavea, Turkishib.	3.00	3.25	Lycopodium, 50-lb. dms	5.75 8.00	10.00
Laurent's acid, drums, f.o.b ib. Lauric acid, comi., pure bas., c.i ib.	3.85 .65	.71	grade, 10,000 lbs. dlvd lb.	1.35	1.40
Lauric aldehyde (aldehyde C-12).	7.75				
n-Lauryl methacrylate, dms., c.i., t.i., works	1.72	_	i NA		
Lavardin oli, Abrialla, 30-32%, dms. lb. Lavarder flowers, ord	6.50 .65	- .75	 		
medium, bis	.80 1.10	.90 1.19			
avender flower oil, NF, French,	9.00	13.00	Mace, East Indian, siftings, ib. Slauw #2	5.40 5.90	6.00
spike, Spanish, dms kilo ead acetate, purif., flake. 400-ib.	13.00	14.00	ovede, bos., cl., 11, works by	.75	.81
dms., works	.46	-	grade, bulk of the		.01
works	.37	-	bags, c.l., t.l., same hasis, too	330.00 365.00	-
ship,t. pt., f.o.b		-	sis too	392.00	_
ead chloride, 400-lb. dms., works. lb. ead dloxide, tech., powd., 200-lb.	3.25	-	Magnesia, nat., tech., heavy, 85%, 160	409.00	-
dins., t.i., works lb. ead fluoborate, Eq. conc., dins., t.i., works, fit squard	.66	.70	Mesn, bulk, c.l., t.l., f.o.b.	232.00	-
works, frt. equald	.65 .28	-	Magnesium bromide, 80-lb, dms. hex-	265.00	-
f.o.b. worksib. coarse, bgs., c.l., same basisib.	.361/2	-	ahydrate b. Magnesium carbonate, light, tech.	2.50	-
sad naphthenate liq., 24% Pb. dms., trt. alid	.37%	-	bgs., c.l., t.l., works, frt. equaldb. USP, lite bgs., c.l., same basis b.	.73	.78
ead nitrate tech., cryst., 400-lb. dms., t.l., workslb.	1.11	-	USP, heavy, bgs., c.l., same basis ib. Magnesium chloride, anhyd., 92%,	.74 .83	. 6 0 -
sad peroxide (see Lead dioxide). sad red, 95% Pb ₃ O ₄ , or less, bgs. c.i.	.321⁄2	-	flake or pebble dms., c.l., worksb.	.12¥	16
works	.38	.387≥	Magnesium chloride, hydrous, 99%, flake, bgs., c.l., worksib.	.141/2	.16
works	.3872	.39	Magnasium gluconate, 100-ib. dms. f.o.b. works, E lb.	4.25	-
ad, red, 98% Pb ₃ O ₄ , bgs., c.i., same basisib. ad silicate (see Lead, white, basic silica	.391/ _{stel}	-	Magnesium hydroxide, NF, powd., dms., c.l., t.l., works frt.	7.20	_
works	25	_	equaldb. Magnesium lauryi sulfate, tanks, f.o.b.	.78	-
pulate (596 Lead, blue, basic suif	ate and L	ead, white,	workslb. Magnesium metal, 99.8%, Ingots.	.22	2812
ad, white, basic carbonate, bgs., c.l., frt. alid.	1.80	1.40	10,000-lb. lots or more. T.o.b. Freeport, Tex lb.	1.53	_
au, write, basic, silicate, bgs., c.l.,	.87	_	Magnesium nitrate, tech., flake. 250-	1.29	1.33
same basis.	.85	_	ib. dms., t.l., works ib. Magnasium oxide, USP, tight, bgs., c.l.,	.32	-
ret. dms., I.c.I., works. ib	.36	_	works, irr. equald ib. heavy, dms., c.i., same basis ib.	1.65 1.54	-
unbleached non-ret. dms., i.c.i., same basis	.34	_	Magnesium oxide, tech. (see Magnesia). Magnesium phosphate, tribasic, tech.		
edible, tech. bleached, non-ret., dms., t.l., worksib.	.28	_	60-lb. bgs., f.o.b. lb. Magnesium silicate (see Talo).	1.00	-
unbleached, non-ret., dms., t.i., same basis	.26	_	Magnesium silicofluoride, bgs., c.l., t.l. works	.1645	.1800
mon oli, Argentina	14.76 7.95		Magnesium stearate, bulk, t.i ib. Magnesium sulfate 10% Mg. (epsom	.95	1.08
italianib. mongrass oii, Indian, dmskiio	8.60 12.60	9.50	saits), tech. bgs., t.l., worksb.	.14 .13	-
Gustemalan, dims. ib. Leucine, dms., 1 kilo works. kilo	11.25 2.25	-	bulk, same basis	1314	-
ran, his	60.00 -40	90.00 .50	Magnesium sulfate, 17% Mg. (syn- thotic monohydrate), tech.		
cowd, bisio. rosulfonate (see under Ammonium (.70 .95 v eodum	.90 	bgs. t.l., works lbs. CP, same basis	.80 1.25	-
na, chemical, pabbla (quicklime)	a avuluin	ngmr ete-	Magnesium suffate, anhydrous, CP bgs., t.l., works	1.75	_
blants.	39.00	AE OA	Magnesium suffate trihydrate, tech., bgs., t.f., works b.	.45	_
basis	46.00	45.00 50.00	Magnesium trisilicate, USP, powd., fib. dms. 5,000-lb. lotsb.	.38	
PB. NF. pielf 100-lb. dose	54.00 .69	57.00	USP, micronized powd., dms., 376-lb. lote	.83	-
talilan, dist., dins Ib.	5.60 6.50	Ξ	Malaihkin, tech., dms., t.l., works b. Maleki acid, cryst., powd., drums, 100	1.62	-
nchressed, cms	17.50	-	kilos, f.o.b	3.20 2.80	Ξ.
amonene, drns	.70 6.35	.85	Malek anhydride, bgs., i.i., works, irt. equaldb.	.56	.59
8lool oxide, syn., 55-oal, drs ib.	2.93 7.75	_	tanks, works, frt. equald	.53	_ ,84 .
92% dms	18.00	21.00	ib. bga., t.i., c.i., divd ib. Mandarin oli, Brazilian, dms ib.	.81 17.75	-
Blvi benzoate, evo. 65-cel dese lle	3.10 8.00		Måndelic acid, dms., 1,000 kilo lotskilo	8.00	10.00
dina syn., 55-gal.	59.85	_	Manganese acetate, dihydrate, dms., divdib.	4314 48	.48
alyi isobutyrate, syn., 55-gal. dms fb, alyi isobutyrate, syn., 55-gal.	7.75	8.50	tetrahydrate, dms., t.l., divd B. Manganese borate printing ink drier. b.	1.68 .80	1.80 .99
dane, 20% formulation, dms.,	6.50	6.55	Manganese borate, tech., dmsb. Manganese carbonate, chemical orace 46% Mo box 20,000-		
99.9% tech., dms., t.l.,	13.10	-	orade, 46% Mn. bgs., 20,000- b. lots or more, works ib. Megganese chloride applyd. dms	1.05	<u>-</u> '
alyi propionate, syn., 55-gai.	6.50	-	Manganese chioride, anhyd., dms 20,000-b, lots or more ib. Manganese dioxide, nat., African, grd	61	:**
dmsib. den flowers, with leaves, bis,ib. without leaves, bisib. spect meal free Oils Fore State	7.90 -78	.85	74%-76% MnO ₂ , 100-lb, bgs.,	200.00	
seed oil (see Oils Entre & Waxes mar	.90 ket report)	1.15	84% MnO., same basis ton	250.00	380.00
Beed of faily sold dies of Traxes Indixe	(treport) .80	.67	Manganase clioxide, syn., cryst., bat- tery grade, 90%-92% MnO ₂ , 100-lb, bgs., c.l., works b.	.70	.67%
lanks. ib. harge, com,l., powd., bgs., c.l., works. ib.	.53	62	chemical, ferrite grade, same be- als	49	61
nium bromide, anhyd., dms., ton	.341/2	40	Manganese gluconate, FCC grade, 100-ib dme., f.o.b. works.r., ib.	3.50	38
Num carbonate, nowo has	6.27 4.00	4.12	Manganese hydrate dms., divd D !	11.	
	1.50	_	Manganaga matal alantrolytic, No. 1	8,75 3314	
INUIII COIDIINA ANNUA' A L. L.L			The second secon	A24 M	
hium chioride, enhyd., c.i., t.i., divd	3.82 2.94	3.49	Chip, Durk, C.L. Works.	3438	

enganese resinate, fused, 37/2% Mn.			j M	ethyl violet
Office of the deep lb.	.34% .42	· -	4.	bbls. 4Methy ami
LANGERIOSE SUITE 75% 78% MISO.			ł	crud purif., flake
25 kgo oga , so ton os s , ton	280.00 245.00	=	١M	lethylene di 4,4,
bulk, hopper care, same basis. ton	330.00	_	M	lethylene c min
bgs., c.i.te. lig., 6% Mn, dms.,	.60	_		lethylpenta lethylpheny
Mannitol, coml., powd., dms., t.l.,	3.02	_	la	5). -Methylaty
Merjoram, French	.86 .61	.8. :8.		-Methylnar Aethylthkon
WET (866 2-Mercaptober zothiazy) disul	fide).			/lica, dry-gr lb.,
MOI (see Diphenylmetite) 5 1.1. 40.000-lb.	.,,	ı. 6	91/2	dry-gra wo
the state same basis Ib.	.51 .50	yr .5		paint or I
Melamine-formaldenyde reski, g.p., t.i.	.65	.6		rubber, b walipape
molding compounds, same ba- lib	.46	V2 -		Microcryste ing wo
Jantic Cosst	, ,10	_	į	jami Wo
Manihol, nat., USP, Brazilan large and	•		_	Mineral oil,
bulk	9.00		.	65-75 80-90
2-Mercaptobenzotniazoie, uga., til.	1.20	5 1.	56	145-1 USP 180-1
Mercaptobenzothiazyi disulfide t.i. dms., works, irt aid lb		3 1.	86	200-2 340-3
Hercuric chloride NF, gran., powd. 100-lb. dms., f.o.b. workslb Mercuric oxide, red, purif., 100-lb	6.5	0 -	-	Mineral Si te
dms., f.o.b. works). 7.0 -		25	Housi Mineral a
vellow, NF, 100-lb, dms., same ba). 0.u 1		.00	ta Hous Molybdate
tech 100 lb. dms. same bi	. , 1-	_	.25 .50	Molybder 9
Big	J. 8.C	~	\	Molybde
Marcury, ammonisted (see White pre	u	16	-	tech., c
Methacrylic acid, glacial, 99%, dm: t.t., irt. equald tanks, works, irt. equald	U- "	87 78	-	tech. mi Molybdic
	e,	00 16	3.00	Monoam
dmsd-Methamphetamine hydrochlorid dms	le. Ib. 4.	50	7.00	
dmsbarges, f.o. Methanot, syn., barges, f.o. producing point, Gu	**!	28		Monoam
Metheramine (see Hexamethylenet	etramine).	20		food g
Methionine hydroxyanalogue, d 86% activity t.l., frt. alld liquid, 88% activity, t.l.	ID.	.86	-	Monobu Monobu
d-Methionine (see Racemethionine	10.	.88	-	Monoch Monoch
Methoxychlor, 50% wetteble power dealers, dms	ier. lb. 2	.05	-	Monoet
Methyl abletate, non-ret. dms. divd. E	G.I., _	.40	-	Monoeti
ret. ams., i.c.i., baille	va-	0.00	_	Monoise
els Methyl acetoacetate, East, di bulk	vd. lh.	.85	-	tenks Monols
Methyl scrylate, tanks, divd Methyl skrohol (see Methanol)	.10. 0	3.00	-	tanks
Mathyl amyl alcohol, tanks, divd Mathyl n-amyl ketone, tks., divd	. W.	.55 .641⁄2	-	Monom
Methyl anthranilate, tech., di f.o.b. Methylbenzoate, dms., t.l.	. KQ.	1.41 .25	2. 65 _	25
99.9%, perf. grade, dms., t.l Mathyl bromide, dist., tanks, 140	.000	1.65	-	40
Ibs. min., frt. alki	. ib. visc.	.58¾	-	Monop
400 through 4,000 cps) 5 bags, tl., cl., 30,000 lb.,	60 lb. min.,	. 72	_	10
bags, tl., cl., 30,000 lb., dvd., zone 1	LD. (visc.	2.73	_	Monta Monta
15 cps) 50 to bage, to 30,000 lbs., divd., zone 1 Methylcellulose, (visc. 400 thr		2.86	-	dx
90 000 (be dive 2008)	i. ib.	2.24	_	refd Morph
ib. bags. tl., cl., 30,00	79) 50 30 lb.			Morph Morph
Methyl chloride Indust Bulk, I	anka.	2.52	- .26	teni Muria Musk
I.o.b, works	ID. chloroethe	.251/2 200). 4.65	-	Musk
Methyl cinnamete, dms. Methyl p-cresol, dms. Methyl ethyl ketore, tanks, dlvd.		6.00 .235	-	Musk
Methyl eugenol, 25-lb. cns	ID.	3.55	3,80	Ca
Works	lb.	.41 .29	=	Myrc
Methyl heptenol, syn., 55-gal. di	ns. ib.	.31 14.50 7.30	=	Myrk
Methyl hentic carbonele, dms	b.	45.00	-	Мутт
Methyl p-hydroxybenzoate (see Methyl lonone, etd., dms. Methyl Isoamyl ketone, tanks	10.	7.30	9.40	
Methyl isobutyl carbinol (see Me	lb. ethyl amyl	.51 alcohol).	· ·	
Methyl Isobutyl ketone, tanks, o divd. zone 2 (Celif.). divd. zone 3 (W. of Rock	ATO: 10.	.35 .38	. = .	
divd. zone 3 (W. of Rock cluding Calif.)	ies, ex- lb.	.41 6.60	10.40	Nap
i vieutyi meunacryjaje, tarika, civ	O IO.		_) Nag Nag
Mathylparaben, USP, 500 kli	oprams,	14.00		
1.0.b. tech., 500 kitograms, f.c.b.	kilo	10.14 9.70	. Ē	Ne
Methylparathion, tech., 80%; of alld. E.	ima., iri. ib.	1,65	5.40	Ne
Mathyl phenylacetata, dms N-Mathyl 2-pyrrolldona, tanka	lb. . l.o.b.	3.80 1.32	- D-91	l Ma
plant	siaib.	1.40		Na
oans	Ib. Ib. dans	5.60		Ne
		1.79 loride)	? 1.9	4 s-l
Methyl violet (see Methyl rose Methyl violet toner, molybdet bbls., divd. E. of Roc	ed, PMA. kies. Ib	3.25	4.57	្សា

			والنووي	تنسيف
olet toner, tungstated, PTA,	Nap	hthol arylida red toner deep nades, bbls	.40 15.	45
thylene dianiline (p.p-di-	1 Bo		.20 13.	.00
minodiphenyl methane) rude, dms., t.l., f.o.b 1.75 - lake, same basis	1-Ni	sphthol-5-sulfonic acid (888 L- 804). aphthol-5-sulfonic 8-amino acid (888 S 80	ld).	
e di-p-phenylene di-Isocyanate (see diphenylmetha	na 1 Neo	hihytamine suifonic mixed acid (see Clevi aphthytamine, tanks, f.o.b.	e's acid).	
4,4,-di-Isooyanate). le chloride, tanks, 4,000 gal min., consumers, divd ib35 –	1.0	works	! 10 t's acid).	-
entenedial (see Hexylene glycol). nenylpryszolone (see 1- Phenyl-3-methyl-pyrszolo	ne- 2-N ne- 2-N	aphthylamine-4,8 disulfonic acid (see Cat laphthylamine-1-sulfonic acid (see Tobias	18848.8CO).	
6). styrene, f.o.b. shipping pt. lb44 ~	Net	atsfoot off, 20°F, t.l., f.o.b. works	.52	-
inaphthelene, bulk, works.gal. 1.38 - Ikonine chloride (see Methylene blue).	8	tanks, f.o.b. works lb. 10°F, t.L., f.o.b. works lb.	.47 .52	=
y-grd., joint cement, plastic, 50 lb., bgs., c.l., workslb07% -	14	tanks, f.o.b. works	.44 .48 .39	.49
grd., roofing, 20 to 60 mesh.	10	tanks, f.o.b. works lb. Delivered prices apply on shipments within	300-mile re	dius o
or tacq., wet-grd., 325-mesh, bgs., c.l., f.o.b. works lb		Philadelphie, Pa.; other areas, 1 4c. higher and West Coast Sc. higher.	Inglier, 10	,
r, bgs., c.l., f.o.b. works 10 10.4 10	- 1	omycin sulfate, USP, non-sterile, dms., 50-kilo, lots, activity ba- sis, dvdkilo. 7	5.00	_
ystalinė wax, petroleum, coat- ing gradės, FDA, tenks,	Ne	opentyl glycol, slurry, 90% ., c.l., t.l.,	.522	_
works		powder, lieke, oga. c, otto		5.75
works	" N	perf. grade, dms	00.00	5.00 -
-75 VIB., TRINKS, INIY	No.	erolidol syn. 55-gal. dms kilo	7.22	Ξ
90 vis., tanks, refy gal. 2.25	I M	ladinamide, USP, t.i. dims	8.00	_
0-210 vis., tanks, rely gal. 2.36 -		divd. kilo feed-grade, 98-99.5%, bgs., same basis	7.50	5.50
0-350 vis., tanks, refy gsl. 2.45 in spirits, petroleum, odoriess,	ua N	Ickel acetete, clms., 5,000-108, to t.l.,	5.10 1.82	-
puston Texgal. 1.76 1.3		divd.Eb.	3.45	_
al spirits, petroleum, regular, tanks, New Jersey gal. 1.41 1.4 custon Tex		ibs. to t.i., divd. E lb. lickel chloride, bgs., 10,000-lbs. to t.i.,	1.19	_
date grange, bbls b. 1.52 1.5		divd. E	1.25	_
denum metal, com.l., powd., 99.8%, dms., worksb. 13.50 - odenum trioxide, CP, dms.,	. N	dickel metal, electro cathodes, cs., works	3.45	_
works, 24,000 lbs. or more.lb. 5.25 1., chemical, dms., 24,000 lbs. or		lickel nitrate, dms., bgs., c.i., dvd.	1.18	_
more, basis,	ן כס	lickel oxide, 75%-78% Ni, dms., 500-	2.60	-
dic acid (See Ammonium Dimoyodate)	- !!	Nickel sulfate, bgs., t.l., dlvd. E lb. Nicotinic acid (see Niacin).	.80	.90
grade, mln. 13% N. 52% P. bulk, c.l., f.o.b. Fig.		Nicotinamide (see Niacinamide). Niedo acid. 36° Be., 38°Be, 40°Be.		
works	-	42°86. tanks, C.I., works NF. 100% basis ton	195 00	-
bgs., c.l., t.l., WORKS, 171.	-		280 00	-
od grade, bgs., c.l., t.l., same bs. 100 lbs. 69.25	-	o-Nitroanfine, flake, dms., t.l. works	1.51 1.44	Ξ
p-tert-butyl-m-cresol, bulk, t.i. ib. 96 1	.00	molten, tech., works	1 37	-
ochloroacetic scid, puril. (see Chioroacetic scid, mo ochlorobenzene, tanks, f.o.blb. 42½		alid.	1.90	-
oethanolamina, tanks, frt. alid Eb. 43	46	min. works	1.63 8.75	-
oethylamine, 70% aqueous tanks, frt. prepaid, 100% basis lb	- \	Nitrobenzene, tanks, 1.0.0	.33	.3
hyd., tanks, same basislb92 olsopropanolamine, dms., c.l., trt. alid. Elb78	-	tenks same basis	.82 .74	=
nks, seme basis	-	2-Nitro-p-cresol, tech., dris., t.i., frt.	1.75 2.50	-
c.l., frt. prepald	-	Nitroethane, tanks, dlvd. E Ib. Nitrogen solutions, direct application, over 32% N. and mgf. type,		
teined hasis frt. equaldib 541/2	-	works	1.20	•
25% soin., tanks, irr. aid. 100% hasis	-	N	1.26	17
40-60% 60m., tanks, m. equal.	-	es eu, built ion	4.10	
nopotassium glutamate, dms., 990 ib. ormore, frt. alid ib. 2.50	-	NOTE: Price is per unit Nri plus 31. M	at raint ar h-u	
nosodium glutemate, 50-10. bys. 76	. 8 0	Nitrogenous tankage, process. Carrol-	7.00	
100-fb. drums, c.i., t.i., dvo	obasic). .57	wile, Wisc	6.75	1
dom., Calif., bgs., c.l., t.l., f.o.b.	_	1.0.b. Forrestdare, A. L. dvd E lb.	2.37	
shipt.pt	-	o-Nitrophenol, dris , 1.0.0. Works.		
orphine sulfate, USP, 20 kbs lb. 1.02	=	works	55	
tanks, irt. 810., E.	- 7.00	m-Nitrototuene, tech., dila., ir.	.65	
usk. syn., ambrette, 20-hb. Uts. 1b. 9.60	-	p-Nitrotolusne, tech. dms., c.i.	. 83	
usk. syn., xylol diffs.	_	tanks, works.	•	
Consolier No. 1 Yellow	-	Norsphedrine hydrochloride (see P)49 henylpropa	nolem
lyrcia oil (see Bay of). 1.30	-	drochloride) Nutmeg oil, dist., East Indian, Ni dist., dist., tid	lo 32.00	_
tanksby. 1.30 hyratic acid, comi., pure, t.l., bgs ib. 1.30 hyratic acid, comi., pure, t.l., bgs ib. 1.12 hyratica oii (see Nutrneg oii).	-	oms	b. 3.10	
fyrith gum, bgs				
1				
		U.		
the set war too School norhite netro	oleum).	Ochre (see Iron oxide, yellow, nat.)	(Bo 5.1	6
Naphtha, high solvenoy (see Solvent naphtha, petr Naphtha, petroleum, cleaners (see Cleaner's napht Naphtha, petroleum, tanka,	1 18).	Ocotes Chinese 90%	do .5.4	0 3V2
Naphtha, Viviar, pedidon New York- New Jersey and New York- gal. 1.28	1.84	L-Octanol, syn., using, tanks, 1.0	.b.	0.
Houston, Tex	-	Contrador perfumer a grade, bo	its.	•
Works phthelig aphydride		n-Onlyl, n-decyl phthalate, tan	, ID,	1U. 331/2
grade, tarika, worker 80°C.	.327	tert-Ootylamine, dms., Gi., Li.,	warks.: 2.	60°
Hold Halas Whole	(46)	Cotylphanol men	.b.	75 : 40
morks (p. 100	77 43	Olticica oil, iq. orna.	6 .	32 46
Naphthenic acd, cruce, me basis ib 80 refined, 220 acid, same basis ib 1.81	.90	Olelo scio. doicrec. (transpi	b b	38 43
s-Naphthol, ground, driss, Ll. divd. ib. 1.81 s-Naphthol, sch. flake, 80-lb. bgs., 0.1. b-Naphthol, sch. flake, 80-lb. bgs., 0.1. works. ib. 1.10		Oleic ecid, a.d. (red) dins. tanks		.36
works.	, , , ,	December 29,1	2000	

WEEK ENDING DEC. 26, 1986

i	Oleum (see Sulfuric acid, furning).		
. 1	Ofinarum oum, tears, bos Ro.	2.10	-
- 1	Olive oil, edible, Spanish, dms gai.	8.00	-
sof	Italian B-type gal.	5.35	-
2c.	Otivine, crude, works Ion	12.00	-
	20 mesh. works ton	15.00	-
	100 mesh, works ton	20.00	-
	Ookum, USP, gran, powd. 25-kilo		
1	intsKIIO	125.00	-
	Orange oil expressed, USP, Calif.,		
	dms., i.o.b. plant 10.	1.20	-
	expressed Valencia, dms lb.	.75	-
,	Call., dist., crs. f.o.b. plant Ib.	1.25	
í	Florida.dms	.60	.65
•	Brazilian kilo	.90	-
	West Indian, bitter, NF X, cns.,		
	I dos 1D.	13.00	-
	Orange peet, bitter, Haitien bla lb.	.38	-
	Creciano Grecca, 30M ID.	2.80	-
	Turkevib.	2.80	-
	Mexico	1.05	-
0	Origanum oil, Spanish, cns kilo	35 00	-
•	Onts root Florentine, bis Ib.	4.00	
	powd. bbls bxsb	4.60	5.00
	Verona blalb.	3.00	
	powd., bbls., bxs	4.60	5.00
	I Control way refd. DUTD, DOS ID.	3.25	3 35
	1 Ovalic and has all works	44	-
	b-Oxynaphtholc acid dms. works,		
	1 lech	2.03	-
	Oxyquinoline base, pure, 1,000 lbs.,		
	in the sile in the second of t	800	-
	Oxyquinoline sulfate, 100 lbs. frt.		
	alid	4 00	-

╏▐▙	2		
) B			
	ladium metal, works . Troy-oz 1	18 00	_
l Dai	m od 1999 Oils, Fats & Waxes Market R	aport)	
Pa	m oil acid, doi distorns ib	.30	_
1 :	anks	42	.45
1	ID	35	-
Pa	im kernet oil, bulk, cit. US prits	1817	1914
Pa	imarosa od Indian dms kii∨	31 00 3 53	33 00
P#	imilic acid, 90%, tech , hags ib. tanks ib.	50 51	-
Pé	pavenne hydrochloride, NF powd.	50.00	_
١.	imp. bulk kilo	56 00 60	-
15	aprika. Hungarian, 100 AU bgs ib Spanish, 110 AU bgs ib aratin, fully-refd, 127-130 F., ASTM,	90	-
P	graffin, fully-refd , 127-130 F., ASTM.	.29	35
1	tanks, refy	.33\1	39
1	14U-143 F., AS INI, WAS 1813	35 .41 / 2	41% 46
1	150-155 F., ASTM. tanks, refy slack wax, 5% oil, tanks refy	19	-
-	12% oil, tanks refy	21 16	-
1	12% oil, tanks refy 20% oil, tanks refy AMP temperatures are an arbitrary 3F h	igher than A	STP.
. I ₽	aratomaldahyde, 91%, 48ke, 005	29\∞	_
.	c.l., i.l., divd	3912	-
F	Paraidehwie tech .98°c 55-921 QMS.	.76%	_
- 1	II AWA E	.5812	_
10	tanks, divd. E	1.75	-
1 1	Parathion mathyl (see Methyl parathion). Paratoner red, bbls	3.75	_
	absoluted tred At KOR ID.	3.75	20.00
- 1		18 50 19.00	21 00
- 1	Patchouli of, Imporessin, Miss. Allo Peach kernel od, USP (see Apricot kerne Peanut mea (see Ois, Fats & Waxes m	rioil).	
- 1	Peanut mesi (see Oils, Fats & Waxes mark Peanut oil (see Oils, Fats & Waxes mark	anket report (et report).	r.
ļ	Pectin dom., NF, Citrus, powo., 100-		3.70
U	kilo lots divd	3.30	3.70
l	alid	.70	-
1		.70	_
أ ي	bison-unit lots billionunits Pencilin, proceine, sterile 50- billion	25.00	30.00
ý.	Pericilin, proceine, sterile 50- billion- unit lots, bulk billion units.	38.00	_
1	Pennyroyal oil, dms	10.25	-
٠. ١	Pentachlorophenol, 50-to, bgs., tr. f.o.b. Wichita, Kan.	.55	_
_	Peniserylivitol, tech., bgs., c.L., I.o.b.,		72
- ∣	Pentserythritot, de- and tri-somers (se		rythritol &
ļ			•
ı	penisecultural triacivists, i.i. Ons.	1.50	~
	Peniobarbital, dms , 100 lbs. or more		٠. ٠
	frt. eld	7.00	
-	or more divid	14.00	-
	Pentylene Letrazol, NF, onta., 200-ld	32.00	
	lote. Pepper, black, Brazillan, bgs	2.48	13 🖺
•			<u>.</u>
	Maleiter, 198. Tellicherry, 198. Pepper, red Chinese Fuksen rice 1986	2.55	
• •	Peoper, red Chinese Fukien rice bgs Raiman, bgs		t,4.₫,
ĸ · ·	I file to the second se	76	-
	Indian, S-4, bgs Pakatan, dundicuts, bgs	56 2.97	() () (] (

8.00

CHEMICAL MARKETING BEFORTER December 29, 1988

.76W .89 .44 .49 .41

		Phihalocyanine blue toner, water dis- persable, bbis., same ba-			Potes
CHEMIC	A I	sis	9.45 1	17.30	Potes
UNEWIL		Obis., frt. alid. E. of Rock- les	9.30 1	14.00	Potes
	-	Phthalocyanine green toner, resinated, bbls., same basis lb.	8.65	9.45	Potes
DDICEC		Phihalylsulfacetamide, dms., 500- kilo lotskilo.	6.61	-	Potas
PRICES		Picolines, refd, mixed, bulk kilo Picric acid, pure paste, 26-lb, ctns., c.i.,	2.61	-	Potas
WEEK ENDING DEC. 26, 190		dry basia, f.o.b. Charlotte, N.C	6.00	-	Potes
		tech., paste, 26-lb. ctns., t.l., dry ba- als, f.o.b. Charlotte, N.C lb.	5.00 2.20	-	dm cak
	8% -	Pigment green B, kgs		00.00	l can
hidust., grede, consumers, tanks, divid		Pimento see Alispice Pimento leaf oil, dms lb.	13.90	_	þ
Permanani red 2B, (red 48), calcium salts, dms., frt. alid lb. 5.2	5 -	Pine oil, 80% min. alcohol content, bulk, f.o.b. works 100 lbs	47.00 5	53.00	Potas
bartum saits, same basisib. 5.2 Peru balsam, f.o.bib. 3.2	5 - 5 -	dms., c.l., 1.l., same basis100lbs		64.00	Potas
Petrolatum, USP, snow white, dms.,	0 - 65 -	a-Pinene, perfume grade kilo tech. grade	1.62 .18	.23	pov pur
tanks, refy	00 - 65 -	b-Pinene, perfumery grade, tanks kito tech, grade, tanks ib. Piperazine, anhyd., dma., t.i., frt. alid.	2.30 .35	.40	Potes
USP, lily white, dms., c.l., refyb	00 - 60 -	E	1.80	- j	Liei
Petrolatum, USP, Lilly white, tanks.	95 -	ib. lots, frt. alidib. Piperezine dihydrochloride, 53%,	2.25	2.35	USI USI USI
tanks, refy	55 - 90 - 40 -	dms.,t.l.,frt.aidib. Piperazine haxahydrate, 44%, dms.,	2.00	-	Potes Potes
tanks, refy	75 - 35 -	1,100-lb. lots, irt. alid lb. Piperazine phosphate, 42%, dms., t.t.,	1.60	~	Potas
tanks, refy	70 ~	frt, elidb. Pipendine dist. 98% min., drns., c.l., t.l.,	1.80	-	Potes
Petroleum sulfonate, 60-62%, sulfonic conf., HMW, bulk, workslb4	<u>8</u> 34 .49	worksklb. Piperonyl butoxide dma., divd. Eib. Pialinum, malai, works Troy oz.	6.92 5.00 486.00	=	Potes
MMW, same basis ib	9 .4914	Polycarbonate resin, pellets, rat., t.l.,		1.86	Potas
Prices for 51% sulfanic content 2a per ib, k sponding molecular wis. Phenacetin USP, powd., 200-lb, dms.,	ower on come-	Polyester resin, uncaturated, g.p., or- thophthalic, bulk, tankcars,			Potes
1,000-lb. lots, divd lb. 2.2/ 100-lb dans 1,000-lb lots, divd. tb. 2.2/		frt. aild	.51 .56	.53 .62	Potes
p-Pheneticine, dms., c.l., f.o.b b. 2.0 Phonobarbital, USP, dms., 500-kilo	0 -	Polyethylene resin, high-density, blow moiding, g.p., hopper cars, frt.			Prk
Phenobarbital-sodium, NF, 500-kilo		alidjb. injection moiding, g.p.,hopper	.44 .43	.52	Potes
hots, f.o.b. works kilo 27.0i Phenol, syn. tanks, int. equald ib 2.2i p-Phenolsuifonic acid. 65% solin.		cars, iri. elidb. extrusion, q.p., hopper cars, same basisb.	.47	.46 .48	Polas Potas
dms., c.l., tob workslb6 tanks, same basislb .5		wire and cable, nat, hopper cars, same basis	.54	.65	' ' ' ' '
Phenothiazine, indust grade, 50-lb. bags, c.l., l.o b works lb. 2.3		wire and cable, black, same ba- sisb.	.65	.75	Potes
puni grade, same basis ib. 2.69 Phanyl acetate, dms., 100-lb. lots.		Polyethylene resin, low-density, film liner, hopper cars, frt eild ib.	.35	.36	Potar
worksib. 1.0- Phenylacetic acid, pure cryst., 25-lb. cns		clarity film, hopper cars, frt., alld	.35	.37	
di-Phenylatanine, dms., 25-kito loiskilo, 84.00		same basisb. extrusion coating, hopper cars.	.35	-	Potas
I-Phenyi-3-carbathoxy pyrazolone-5, dms. 200-fb. lots, divd. E fb. 3 49		same basisib.	.38 .37	42 38	Pota
m-Phenylenediamine, cast, dms., c l., tl.,1 o.b.works	7 -	Polyethylene linear low-density g.p.	.36	.40	ľ
o-Phenylenediamine, Ilakod, dms., t.l., t.o.b. works	5 –	blown film resin	.40 .40	.43½ .45	50
t o b. works	0 -	Polyethylene resin, low-density injec- tion molding, g.p., hopper care, same basis ib.	45	40	gr/
190-kilo lots or morekilo. 175.0 Phenylethyl acetate, dms	5 -	line wire, CATV, power cable b. wire and cable thermopleatic high-	.45 .70	.48 1.15	Pote
2-Phenylethyl alcohol, NF, dms lb 2.1 b-Phenylethylamine, dms., 30,000 lbs.	_	voltage, natural color, same basisib.	.80	.90	te
or more, fri. alid lb. 1.6 Phenylethylphenyl acetate, 25-lb. cns		wire and cable, XLPE low voltage, 14% carbon black, same			Pota
Phenylglyconic acid (see Mandelic acid). Phenylhydrazine. 99% min., drns ib. 3.5		basis	.68 .60	.73 .61	Pote
1-Phenyl-3-methyl-5-pyrazolone. dms., 250 b. lots divd. E lb. 1.8		units min million units Polyoxyethylene sorbitan monos-	.52	-	l
o-Phenylphenol, dms.,t.l., works lb. 1.3 p-Phenylphenol, bgs., t.l., 40,000 lbs.		tearate, dms., 20,000-lb. lots, works	.73	_	Pote
or more, works ib. 1.6 Phenylpropanolamine hydrochloride, 180-kilo dm		dms., 20,000-1b. lots.			Pote
Phenyisalicylate, punt. cryst., dms., Eb. 2.7		Polypropylene resin, homopolymer.	.73	-	
tech .cryst. E		g.p., nat., t.l., (rt. alidb. copolymer, med. impact, nat same basisb.	.45 .50	.48 .56	Pota
Phloxine toner (red 90), dms., frt. ald	95 2.05	high impact, same basis ib. Colored material 6c, per ib. higher for	.53	.60	Pot
	55 .67	each grade. Polystyrene resin, cryst., nat., hopper			
of mine washed, 66-68% b.p.l. bulk c.l. mines ton 23.		cars, Irt. alid	.48	-	Pot
vessel, Tampa, same basis ton 28. Phosphoric acid, com'l. and tech.	00 -	ais	.51 .52	-	lk
grades, 75% tanks, works		expandable beads (EPS), pkging orade 1,000-lb, lots	.89	_	Pot
85% N.F. tanks, I.o.o. freight equald		Polyvinyl alcohol, fully hydrolyzed	.73	-	ļ
Food grade prices \$2.00 above tech. grade. Phosphoric acid, agricultural grade,		divd	1.00	1.05	Pol
	10 -	partially hydrolyzed, medium viscos- ity, bgs., t.l., divd	1.05	-	-
super, min. 70% a.p.a., same basis	45 -	polymer dispersion, bgs., romo- dwdb.			Pol
c.i., works, frt. equald lb. 1. lanks, works, f.o.b, works, lb.	.00 - .91 -	g.p. suspension, bulk, same ba- sisb.	.38	-	}
Phosphorus oxychloride, lanks, frt. equaidib.	.40 -	pipė gradė, bulk, same basis jb. lim grade, bulk, same basis ib.	.47	- .47	Pol
Phosphorus pentasulfide, powd., drs., c.i., works 100 lbs. 50.	.00 -	persion, same basis b.	58	.61	
Phosphorus pentoxide, dms., t.i.,	.00 - 82 -	g.p. copolymer suspension, same basis	45 50	.49	
Phosphorus sesquisulide, dms., cvs., c.l., worksb.	.38 -	Potash agricultural (see Potassium mu	53 Flate)	_	'' _F
Phosphorus trichlonde, dms., c.l., works	.40 -	Potash, caustic, liq., 45% basis, tanks works	13.00	_	Po
Phthalic anhydride, flake, c.i., t.i., dms.,	.35 -	west Coast, 50% basis, tanks ex forminal 100 hs	. 19.08	-	Po
frt. equald,	.30 - .27 -	reg. flake, 88-92%, 400-ib. dms., cl. works 100 ibs Potassium acalate, NF, gran, , dms., t.i	10.00	-	Po
Phthalimide, figko, works, lb. Phthalocyanine blue toner, red shade,	85 –	works Eb Polassium bicarbonata, tech., gran.		1.31	Po
bbls , frt. alid. E. of Rockies lb. 9. green shade, same basis lb. 9.	45 30	bgs., c.f., works)31% 	· -	Pc
resinated, bbis., same basis lb. 9.	.10	dms., t.l	72		۱ ۳
30 CHEMICAL MARK	minic Ki	CPORTER December	₹9, TA86		

			Potassium bichromate, gran., 400-lb.			ρ
	9.45	17.30	dms., c l., t.l., works lb. Potassium biliuoride, tech., dms., t.l.,	.48 .45	49	F
	9.30	14.00	works , frt. equaldlb. Potessium bitartrate, NF, gran , powd., bgslb.	90	120	ŗ
•	8.65	9.45	Potessium borohydride, powd. dms . 100-1,000 lbs., works lb.		20 00	F
•	6.61	_	Potassium bromate, gran., powd., 200-lb. dms., c.l., f o.b.		1	P
•	2.81	-	works	106	-	þ
I	6.00	-	C.I f.o.b. works lb. Potassium carbonate, ilq., 47% K ₂ CO ₃ .	1.12 14.60	_	P
•	5.00 2.20	-	tanks, t.w., works 100 lbs. dms., c.l., t.l., works 100 lbs calcined, 99-100% K ₂ CO ₂ , hopper	20.65	-	P
1,5	00.00 2,0	00.00	cars or trucks.	32.50	_ }	F
	13.90	-	bgs., c.l., t.l., works 100 lbs drums 100 lbs	35.20 36 40	:	F
	47.00	53.00	Potassium carbonate, gran., purif., 400-lb, dms., 5-dm. lots lb.	.40	46	F
1	51.00 : 1.62	54.00	Potassium chlorate, cryst., dms., c.i., works	.14% .30	<u> </u>	F
0	.18 2.30	.23 -	purif., gran., 325-lb. dms., f.o.b. shipping point	.40	_	F
	.35	.40	Potassium chloride, chamical grade, 99,95% KCI, bulk, c.l., f.o b			n
	1.80 2.25	- 2.35	workston 1 USP cryst.dms	1,12	-	r
	2.00	2.05	USP grandms	.67 .67	<u>-</u>	r
	1.60	_	Potassium chloride, agricultural (see Potas Potassium chromate, purif., cryst.,	ssium mun: .57	ate).	F
	1.80	-	dms., works	.93v ₂	_	,
	6.92	-	Potassium cyanide, dms., 20,000-lb. lots or more, f.o.b. works lb.	1.32	_	۱
4	5.00 86.00	-	Potassium dichromata (see Potassium bichromata).			١
	1.84	1.86	Potassium fluoborate, tech., dms., c.i., t.i., works, frt. equald lb.	1.40	1.42	۱
	.51	.53	Potassium fluoride, enhyd., dms.,	1.68	-	! ا
	.56	.62	Potassium gluconate, dms., t.l., f.o.b. works	1,45	-	
	.44	.52	Potessium gualacolsulfonate, 300-lb. dms., 600 lbs. or more frt.			ļ
	.43	.46	equald	2.10 caustic).	-	١,
	.47	.48	Potassium hydroxide, USP pallets, 100 lb. dms. c l., t1, works.			1
	.64 .65	.65 .75	frt. equald lb. Potessium rodide, USP, gran., cryst., dms., 1,000-lb. lots divd lb.	1.31 10.72	1 33 12 39	1
	.35	.36	ACS grade truckloadib. Potassium-magnesium sulfate, std.,	11.32	13.55	ľ
	.35	.37	bgs workstori basis 40% K ₂ SO ₄ and 55%	59.00	-	
	.35	-	MgSO bulk, works ton Potassium metabisulfate, gran., dms.	67.00	-	
	.38 .37	.42 .38	Potassium muriata, 60-62.4% min.	.44	-	ľ
	,36	.40	K.O. std., bulk. c.l., fri. equald., f.o.b. Sask., Canadaton	52.00	53 00	ļ
	.40 .40	.43½ .45	Sask,	53 50	54.50	Ì
	45	40	coarse, f.o.b. Saskton gran., f.o.b. Saskton	57.00 58.50	58 00 59.50	l
	.45 .70	.48 1.15	Potessium nitrate, fert, grade, std., 50- ton c.l., divd. SE ton		274.00	l
	.80	.90	prilled ton tech., gran., bgs., c.l., min. 50 tons, divd ton	277.00 470.00	284 00	
•			Potassium oxalate, neutral, tech., fino gran., powd., 300-lb. dm., frt.	77.9,00	_	Ì
	.68 .60	.73 .61	equaldib. Potassium pentaborate, gran., bgs.,	2.54	-	ł
	.52	-	C.I., works	1.01 1.00	-	
N.	.73	-	Potassium pentaborate powder 15c. por Potassium perchlorate, dms. c.l., works	no nigner. .78	_	Ì
ا. ا	.73		Potassium parmanganate, free flow- ing, bulk, hopper trucks,	,,,,	-	١
r. X.	.45	.48	works	1.09 1,20	-	ĺ
).	.50	.56	150-kg, dms., same basis ib. Potassium permanganate, USP, 50- ib.	1.17	-	
X X	.53	.60	kgs., works, c.l., t.l łb. Potassium persulfate, 225-lb. dms., 24,000 lbs. or more, f.o.b.	1.38	-	1
ж 5.	-48	_	plantcwt.	78.80 72.50	-	١
b.	.51	_	bgs., cl., t.l., works, E., frt.			
er b.	-52	-	equald 100 lbs liquid, bulk 100 lbs Potassium salicylaie, USP, gran., 200-	63.75 46.00	64.00 49.50	1
g b. b.	.89 .73	-	works frt ald	1,52	_	ſ
d, L.,			USP, powd., 300-lb, dms., 2,000 lbs.	1.42	_	l
b. 8-	1.00	1.05	Potassium silicate, soin., 29.8-30.2 Be., 2.5 ratio, i.c., t.t.			
D. D-	1.05	-	works 100 lbs. dms., c.l., t.l., works. 100 lbs. Potassium silicate, 40-40.5 Be., 2.1 ra-	18.90 25.90	-	1
lb. B-	.50	-	tio, t.c., t.t., works 100 lbs. 40-40.5 Be., 2.1 ratio, dms.,	25.05	-	١
b. b	.38 .47	:	C.I., t.l., works 100 lbs. Potessium silicate, efectronics grade.	32.05	-	l
10. 18- 10.	.37 .58	.47 .61	1.t., works 100 lbs.	26.10	_	
ne Ne Ib.	.58 .45	.61 .49	solid or glass, 2.15 ratio, dma., c.l.,	33.10	-	}
lb. lb.	.59 .53	- -	t.l., works	53.30 45.65	-	
Mur ks. bs.	iate). 13.00		December by weight of K.O.	pht of SIO ₂	divided by	
05. KS, DS.	13.00 18.08	-	irt, equald	.11%	.15	
o.l., Iba.	42.35	_	or powd., dmsb.	.80	1.20	
t.i. . ib .	.90	1.31	Potassium stamate, dins., frt, alid., ib.	2.50 N.A.	3.10 -	
的., . f b. m.,	.319	t -	figh. 50% K ₂ O std., bulk, c.l.,	150.00	160.00	
.b.		-	Potasskim suifate, gran., purif. 400-lb.			١

Polassium tetraborate, gran., bgs., c.i. works	.10	-	Flic
Potassium letralionate powder 15c perton h Potassium thocyanate (ISP) cost	.15 Igher	-	RAC RO RC
lech cryst das the color by Potassium filanate, etns el.	.01 .62	:	Ri
Potassium-triamium fluoride, tech.	.714 .24		F
dms 11 works fit		1.59	F
Prediisona USP dins , 5 kilos or	.78 1.03		
Prednisolono, ambyd USP, dms, 5	.12	-	
Olic grade, dms. 2 000.ih	1.12	-	1
USP, ampule grade, dms., 1 000.	1.95	575	1
Propionalienydu, lanks, l.o.b lb. Propionic ackl, syn , pure, tanks, divid	1.95 .35%	5.50	-
Eb. n-Propyl acotato, tanks, divdb. n-Propyl alcohol, tanks, divdb.	.33 .531/2 .42	.31% .44	Ì
n-Propylgaliate dms., 100 to 2,000-lb. lots, divdlb. 11 n-Propyl-p-hydroxybenzoate, USP.	1.50	•	l
500 kilos kilo 1(tech , 500 kilos, f.o b kilo 1(Propyl paraben (sea n-Propyl-o-hydroxyban)	0.80 0.36 (opte)	:	
Propyi (niouracii, Jms , 50-kilo lotg or kilo si	5.00 .75	.80	1
n-Propylamino, dms., c.l., dlvd ib. Propylene, polymer grado, f.o.b. Tex. and La Gulf Coast points ib. chemical grade same basis ib.	,1714 ,1514	.00 .16	إ
Propylene glycol, indust , tanks, f.o.b. lb. USP, tanks, f.o.b. Eb.	.40 .43	42 45	1
Propylene glycol monomethyl ether, tanks divd E	.49	-	1
Punice, dom , find, 4F-0, bgs., ton	.47V2 1.50	1 75	Ì
	0.00 0.00	:	
Purnice, imp., Italian, fines, bgs., ten	0.00 0.00		
medium, bys., ton lots f.o.b East	0.00	-	
Pyrazolone red (red 38), dms.,	0 00	- 15 4 5	
Pyrothrum flowers, fine grd 0.9% pyrothrins, toniets, frt, alld.lb.	3.00 1.91		
Pyridine, rold , 2-dec , cl., works	7.50	37 75	
tanks kilo	5.70 5.70	:	
Pyridosine hydrochlorido, USP, 100 kilos or inche, divid kilo. 3 Pyritos, Carractian 48-50% S. mines longion	16.00 4,50	500	
Pyrogalic acid (see Pyrogalio) Pyrogaliot, 100-lb, data, 1,000-lb.	13.70	15 25	
	_		
10			
U			
Quassiachips	.57	35 20	
rad, days, fri. alki	27.00 24.25 24.90	32.30 2.75	
Quinco sood, bgs	2.00 4.20	4 25	
Onlines by trochtestes, NF, 1,000-oz. drns., 2,000 oz. or more. oz. Quirine sulfate, USP XVIII, 1,000-oz.	2.45	258	
data, 2,000 oz. ormoro oz. Quinolino, dina., t.l., frt. equaldlb. tariks, samo basislb.	2.30 1.48 1.43	260 - -	
tariks, samo dases			
D			
n			
R salt toch., 304 molecular wt b. Recemetryonine. USP, 50-250	2.12 8.80	-	
250-500 kilos kilo	6.60 6.60	:	
Rapeseed oil, dms	1.07 58V	.6212	
Ams) 22.00	,42Vz	
Reserpine, USP, cryst., bols gram.	.40 3, 9 8		
Resorcinol, USP, cryst., dms. 50 kgos	9.35 9.90		
Pesorcinol monoscetate, dms., 1,000	1.98	•	
PMA, dms., works ib.	9.25 11.50	14.00	
worksib. Rhodinol, 25-lb. cnsib.	105,00 16,25	58.	
powd. bgs	.61 34.60	in the second	•
Riboflavin, feed grade, 25 kilo. div Riboflavin, USP, 25 kilos, divd kilo. Riboflavin 5-phosphate-sodium, 25	70-4-		. :

Rice tran oil, refined dms. t.l lb.	1.25 -	grad	rbonste, USP. to, bgs., c.l., t.l.
authorities and the contract of the contract o	i) rirato).	COREGO SE	aki Inte basis
Rochard San Used Coaltar pilch, roching	1-7	L area SRD	ne basis
Plose Of Tractic Killion	6.500.00 7.500.00	L Code um bich	game basis romate, gran
presentaty de, rer i Openio i kilo	15.00 11.00	1 Sodium bit	rks, frt. equald luoride, 400-lb
Tunisian, dms. Rotenone resin, 30-45°a, 100-lb. dms. works	.21 .23	. I innub b	. equald. gs., c l., same t
(IONA)		desc 0	ullate, bulk, c.l., sulfite, anhyd.
A		. w	III Na. Loot
		Sodium bis	West Julite, soln., 36° asis, works, Eas
V	كباد ومجوز كينان والمراجع	- L enin 10	0%, bulk, works raphic grade
Saccharin NF, gran. soluble, dmi 1,000-lb, lots, frt, alld i	s. b 2.50 2.75		orks
Sacharin NF, powd., soluble, dms., le	55 ID. 3.75 -	nowd V	vonks earne basis
Salflower oil, non-break, tanks, 14.	b78 .80	Sodium	boronyariae. 1000-5000 lbs.
Sage leaves, Dannatian, 145	lb 1.65		borohydride, s soln., 12% NaBl
Turkish.	(10 165.00 180.00	Sodium	3000 gal tankw bromide, 99% dms., 1.o.b. wo
Dalmatian, cris	klo 19.00 21.00	Sodium	Carbonate, det C.I., t.I., works.
Spanish, che. Saicylaidehyde, tanks, f.o.b. Saicylainide, NF, gran., powd., dr 2,000-ib. lots, one ship.	ns.,	Sodium	Carbonate, Cry Carbonate, C
toch ams. C.L.	1000 444	Sodium	ogs., c., , f., , egd <i>carboxymeth</i> y
works USP, cryst., dms., 1,000 lbs more.	. or . lb. 1.33 1.63	. I Carding	chiorate, cryst delivered, N.E
USP, pawo., ams., 1,000 loc		Sodium	delygred, 5.5. delygred, 5.5.
Sadi(see Phenylagiicylate).	bas.		c.l., works. E. n chloride, tech n chloride, USP
c.l., t.l., North, works 80 bulk, same basis cremical grade, same basis 8	ton 60.00 61.2	Sodiu	m chlorite, 16
Salt, rock, medium, coarse, sam	0 lbs. 2.70	30 I	m chromate, a
bulk, same basis	100%	Sodiu	m chromate, to
N.SO ₄ , Dasis, I.O.D. Works	ton 90.00 99.0	oo Sodiu	m citrato, gran
Sandalwood oil, E. Indian	. kllo 102.00 -	- Sodiu	100-lb. bgs
Sarcosine, tech., tanka, work	. ib50	- Sodu	ping point. Im cyanate dr works
Schaeffer's salt, paste, dms. basis, works Scapolemine hydrobromide.	USP.		um cyanide, bi 90% min.,
100-oz lots bots	ks. ib. 195	5.50 - Sod	divd um diacetate,
purit, bgg. C.I. Works.	1015. ID		extow " <i>etale</i> oalis mui
Selemum, powd., 99.9974 De	b 13.00		l.i., divo. ⊏ ium diacetate,
Comi., 99,576 Se. Sario Dos.	nole and	.=- 1	C.I., works flum erythorbal or mixed
half, bls. Tenevelly, No. 1, bls. powd., bbls., bxs.	ib. 90	.71 1.10 P	point Prices W. of Der
Sesame oil USP, Oris., C.C.,	nericen,	So	dium (erroc) works
hulled, bgs	per bgs.	So	dium fluoborate
I.C.I., WORKS		· \	dium fluoride, dms.,c.l. 100 bgs.,c.l.
Silica, amorph. dry-grd., b works 93%, 200 me 98%, 200 mesh.		32.50 33.50 35.50	USP powa.
93%, 97%, 325 mesh	ton 37.00	1 6/	odium formate, odium gluconal 2,500 lb:
98,5%, 325 mesh. Silce, dry-grd., bgs., c.l., wo 400 mesh, micronize			odium hydride. NaH. 18
		82.50	works USO'Dyn muitoci
cronized99% under 10 mic	rons, mi- ton 104.00	105.00	iodium hydros f.o.b. st
cronized Siks, hard-quartz, 99.5% meah, bgs., c.l., w	SIO ₂ , 325 orkslon 37.00 orkslon 34.75	- \s	Sodium hydroxi b. dms
140 mesh, bgs., c.l., w	dms., c.l.,	_ } !	equald Rodium hydrox Rodium hypoph
		- 1	110 lb, dm8.
works	0-oz. lota oz. 4.29 Trov oz. AG/ n.000	}	Sodium hyposi Sodium locide,
100 avoir. oz. Ag	NO ₃ oz. 3.2060	1.85	Sodium laury
powd., bis	OO-Ib., paper	- \	f.o.b. Sodium fignir work
bulk, c.l., same basis	ton 63.00	_	Sodium metal Sodium met
Same basis	ion 123.00	\	gran tetrahydrat
Soda, causlic, liq., 50%	ks. I.o.b., irt.	195.00	Sodium, met c.l. +
equal., 76% Na	ton. 205.00	225.00 570.00	(used, dm:
fake, 76%, 400-lb.dms, 4 solid, .76%, 700-lb.t works	ima. C.l.		tenks, wor Sodium me
gran., 75%,450-10	ton. 520.00	, - i	C.l.,
beads, 76%, 400-	100 108 27.50	a in Wast /UU.	foodgrad Sodium me
Prices for liq. rayon-ty higher for solid	7.50 lbs. 27.50 pe, \$15 ton higher. Price 5, and \$20-\$30 ton highe	ar for gran, and	bulk, c.l.,
Soda, sel., conc.	, bgs c.l. 3.3	- 0.05	pentahyo
Sodium acetate, an	hyd., 698., 6.1., .5	54 -	bulk, c.l. Sodium ma
Sodium acetate, USP	urrke ID.	67 –	crest. d
Sodium alginate, N	ormorelb. 6.0	00 6.75	Sodium na Sodium N
Socium p-aminosaid	r more, f.o.b.	.73 _ .49 1.50	Sodium n
Sodium antimonate, b	gs., gl., divd. E. To. 1	45 FA) bu
Sadium hoszasta t	orn . 005 C.l., ()	.30 10.50	Imp. C
iri. ald Sodium benzoate, cl., tl., (rt.		831/2 -	b. In
	glidbasisb. t.L. seme basis. ib.	89 -	Sodium
ton-late, Barne	dir	.92 ~	

		oskicate, tech., anhyd.,	1.1			
bicarbonate, USP, powd., reg. grado, bgs., c.l., t.l., works, frt.	bgs.,	cil, works hydrated.	_ 111	VREV	AICAL	
equald	1888	ungks 100 lbs 26	.25 - .45 -	VIILI		
sense basis 100 lbs 17 20 - same basis 100 lbs 17.85 - lbn, same basis 100 lbs 17.80 - lbn, same basis 100 lbn, same basis	Sodium pen	tachlorophenate, beads	.67 -	PRIC		
n bichromate, gran., ogs. c.i., t.i.,	bg8.	abarbital (see Pentobarbital-500	.66 - fum).	PKIL	E 2	
m bifluoride, 400-lb. ams., c.i.,	Sodium pero	orate, teneristation to the	.321/2 .381/2			
Hb. bgs. c.l., same basis ib.	Sodum pers	ulfate, 22540. oms., 24,000 or more, f.o b. plant b.	.63Vz - .62 -	WEEK ENDING	DEC. 26, 1986	
s., c.l., 100 lbs. 13.00 - s., c.l., 100 lbs. 13.00 - m bisulfite, anhyd. bgs., c.l., t.l., 101 lbs. 28.50 - works, East. 100 lbs. 33.00 -	Sodium phe	nobaronal novd. dms., b.	odium). .76 - (5	Sorbitan monostagrata, do 30,000 15. mil		
rks. West 38% bulk 100%	Sodium pr	osphate, all works frt.	=4.50 - \	works	30,000 b	
basis works, rest works West 100 lbs 20.00) eq	uald.		70° 20° 10° 20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	aguegus.	
otographic grade, 435, 300 ibs. 21.90 -	Sodium Ph	osphate, monubality to be	55.75 - 59.75 -	point	ng point lb 35 -	
um borate NF, gran, bgs. c.l., works	tribasic.	tech same basis 100 lbs.	52.25 52.75 63.25 -	oran dms .c.i. i.i . wol	NS 68 72	
lium borohydride, powd , circs. 19.88 21.90	chlori	nated, same basis, 100 lbs.	31.50 - 30.50 -	Soybean meal (See Olis Ea	se & Waxes market report.)	
lum borohydride, Stabilzed Water	crys	lood grade, saint	35.50 ~	Soybean on actourate	New York ID. 14	
3000 gal tankwagon, works be	USP.	works	.19 .20 ⁽ 2	Soybean oil, acid, duil, d tanks	lb47 58	
dins., 1.0.D. Works		D. Orige., the date 2,000 lbs or	5.50 - '	tanks	lb. 2.50 2.70	
dium carbonate, cryst, monthly crate cost	1	more, t.O.D. III. and	58.25 -	Spearmint on, Changer.	NO 8 00 -	
bgs., c.l., (1. Works., c.l.)		c.l., works, irt. equald 100 bs. irade, non-leavening, bgs., c.l., works, irt. equald 100 bs.	61,25 -	Far West, native Far West, Scolch Spruce oil, dms.	(b. 800	
odium chiorate, crysta, botto, ton 330.00	Sodium	pyropnosphale, let lib.	.3880 -	St. John & Dread, Ed. J.	nhvd. dms .	
devered, 5.5. odium chlorate, cryst., 450-fb. dms.,	Sodium	pyrophosphate, tell actions	44.75 -	works.	wke ID N.A -	
odium chloride, tech. (988 581-)	Pal	works, irt. equalo 100 hs.	42.50 -	Stannous fluobocate,	ig., cone dms .	
odium chiorite, tech., disa., lb. 1.17 12	foo	sis. 100 bs sis. 100 bs d grade, bgs .c.i11, same ba- 100 bs.	53.00 -	Stannous Oxido, oms	works in MA	ı
fodium chromate, arrivol. (b. 67	Sodium	salicylate, USP, Cryst., 200	300 -	Slearic acid, doubled pa	ы 28 3/	,5
C.1., 11., WOLKS ashud 200-lb.	USP	works, Irt. equalu.	3.05 -	Stramonium leaves, b	gs lb 15 20 (ISP bulk kilo 47.00)
unia. LISP gran dihydrate.	Sodium	n sesquicarbonate, bulk, c.l., t.l.,	170 00 -	Stronhum Caruorata.	A 10 31.1	
ping point	Saduf	bos. C.I. L.I Works	•	Strontium nitrate,	100 51.50	_
WOLKS.	5000	100 lbs	. 15.70 -	Styrena monorier.	ork5 in 23 2	27
90% ויוווי וייטי וייטי ווייטי ווייטי אייטי		95-2 00 ratio, bulk, c.l., 11	20.30 -	100 (800	no basis lb 77	8 I A I
Sodium diacetate, annyo., una. ib. ,68 works	- 67	gs . C 27 5° rolid 3.22-3.2	5	clear, same bus	h. 235	
(.). divo. E. of hoofing.	- 1	ratio, bulk, c.l., l.l., irratio, bulk, c.l., l.l., irratio, bulk, c.l., l.l., irratio, indicates poicentage by with indicates poicentage by weight of tia.	. 530 ~	L Surrence actu, inter-	(D 200 F	11
C.L. WORKS nowd . Gran., 1.1.	"Ra	percentage by weight of Na.	0	1	an 1913 C1. 1.0 U	•
point. Ib. 2.50 a	l l	WORKS, I'll equipe the alld El	b NA ~	taly E	sobulytate 90 ·	-
Sodium terrocyamide 33 lb .60	- Sodi	um sulfarinate. Uli powd . dni	5	gnis , 1 · · ·	R) 10	-
Sodium fluoborate, text., grant, b. 1.77	- le	ch , detergent, rayon-grade. c	i). on 90.00 96.00		on the days forb	3
Sodium fluoride, Write, St. equald. ib. 6345 dms. ct. works, int. equald. ib. 60	- Sod	works. Out. hum sulfate. West, bulk, c.l. wor	ks. 90.00 101.00	works -	time 500 kilos kilo 39 50	-
USP powo. 200 lb. 4.69	- Sor	bulk, cl.l. East, same basis	Hb 53.00	Sulfabenzamide	usp dms 500	23
Sodium formate, bgs., cl., works lb. Sodium gluconate, tech., 50-lb, bgs., Sodium gluconate, tech., 50-lb, bgs., 2,500 lbs. or more int. alid., lb.	- So	dium suithydrale, tlake, 70-7	2ºa. Irt.	l Hios	p could dms 500	
Sodium hydride, oil dispersion, 60%	1	equald	Iri.	/ Mos ·	usp dms . 500	
works (see Sodium sulfnydrate.)	Sc	equality days c.l. Wo	rks.	Sulfamerazine.	USP, microcrystals. 33.50	
1 Sodium mydrosamba point E ib	-	bgs , same basis	ton 410.00 ~	USP, powd. 0	andum USP, powd	
Sodium hydroxida, c.l., t.l., works, frt.	1.06	Works, Entry Lech, 95-1	00%	Surfamethazine	powder, dms . 500 9.00	1
Sodium hydroxide, 1901. Sacrada, 300	. =	ogs, 1.00 cts CP (see Soc	lium thiocyanale).	Sullamic acid.	cry51 bgs c 100 bs 38.00	4
110 lb. dms Corlium thiosul(ate).	1.52	Socium tetrasulfide. Ilq 34%.	dms. . ton 540.00	Suffamic scid,	gran drns C1. th .36	
Sodium hydrau usp. cryst., 300- to 500-	- !	Sodium thiocyanate.pull	Blom	Sustandamide, frt. 9 9	uald	
Sodium lauryi sullate, 55 /51 15 1b29	.32	tech., anhyd. dms., 2,000 i	bs. or lb97	_	veterinary grade.	
Sodium metablytime (see Sodium beufing). Sodium metablytime (see Sodium beufing).	- \	Sodium thiosulate, tech., photo-	grade.	Sulfur, crude, t	onght, molten, dom, 1 o b	1
Sodium metados al works D	-	works in equals.	58/1V0	_ 10.b.L.s. re	fy Houselon long-ton 120.00	
tetralydrate. 91811. ib49	- \	Sodium titanate, dms , c.l., wor	ks lb 1474 . 50-lb.	ex termina	Alberta Canada lor US	
works. Sodium, metallic, 12-lb, bricks, dms. c.i. works. tused, dms. 24,000-lb, lots or more, lb. 87		Sodium tros of frt. alid. E	, ID	denv	ery long-ton 80.00 ery long-ton 152.50 amps, Fls., long-ton 152.50 a price subject to \$10 per long-ton de	6 (
[WORKS 10	.80	Li , Works same bagis	100 Nos. 37.50) most	COMPANIES COMP	
Sodium metaphologina pt. fri.	-	food grade, bys., took hid	100 lbs. 48.00 h molv	l nor	100 lbs 13 60)
n (oodgrade, bye. c.i. " 100 lbs. 68 25	-	Tills Links	. in. a.vu	5.50 tump, sar Sullur, reig	ne page of mines ba-	'n
and Sodium menagement (00 bs. 27.20	; -	Folin grade gms., 10,541	Ib. 8.00	_	ro in the same ba-	
bulk, C.I., Works, bgs., c.I., I.o.b. ship- pentanydrate, bgs., c.I., I.o.b. ship- 100 bs. 18.9	5 -	Sodium-ammonium phospital cryst., dms., works.	ioxylate.	_ Sultur, re	ld sublimed NF, 99.85%	
bulk, c.1, works.		Containi-zirconyl sulfate, dri	s, 1,000 in th .28	_ } "	three basis on 5% min. bu	J Q
cryst., dms., t.l., same basis	2 -	tech, dms., any quantity, t	works. 15 15 n strakcht	į r	100 ps. 14.0	
75 Sodium raphia works	_	Solvent negatition, b.r. 320)°-350°F,	fine, 9	mesh, same besis 100 tos 15	B0
Sodium Nitrate, Oct. 100 lbs. 34.		New Jersey	gel. 1.41	_ Sulfur de	equald.	1
bulk, o.l., works	00 -	Bowent naphiha, petroleu	m, straight aromatic. tanks:	\ Suttur 0	KOXIDO INT. COMO FOIL COM.	ġ¢
Gull whee ton 182.		New Jersey	gal. 1.30	1.35 Sulfur II	ronochioride das a la serie	.1
bulk, c.i., gantutural, bulk, c.i., imo., agricultural, bulk, c.i.,		Minois . Forbic scid, Li dins., divd.	gal 1.30 fb. 2.50	3.10 tanki	in equals bears serve bears MARKETING REPORTER	
same basis. Sodium nitrite, USP, drus., c.l., works, 100 lbs. 37	.25 -	Decembe	r 29, 1988	CHEMICAL N		Ġ
						i,

CHEMICAL

	JIAFA	·	
WEEK	ENDING DEC. 26, 198	36	
Sorbitan mo	onostegrate, dms., c.l., t.l., 0,000 lb. min., f.o.b	_	
VVD	orks	76 - 80 -	•
Sorbitol.	In 1 a.b. works Ib. USP, reg. 70% aqueous, ms. c.i., i.o.b. shipping	3u -	
dn po	ms., c.f., f.o.b. snipping	35 - 30 -	
tani gran d	ks, f.o.b. snipping point	70 74 68 72	
Saybean	ms , c.t. 1.1. works lb. dms , c.t. t.l. works lb. meal (See Oils, Fats & Waxes market i oli (See Oils, Fats & Waxes market i oli (See Oils, Fats & Waxes market i	etreport.) report.)	
Soybean	nes and lanks New York ID.	.14 15 48 .59	,
Soybean	oil, acid, dbl , dist., diffs	43 .44 47 58	
	.9	.36 .4. 2.50 2.7	
2 pagaran	- 003: NO	5 50 - 8 00 -	
FarW	est native	950 ~ 850 - 800 -	
Spruce	all dms	29	30
Stannk	c chiefico, annioni in ib	N.A N.A -	
Stannec Siannou	oxide dris works ib	NA -	•
Stanno	IN COURTS IN	N V .	•
Stanno	LL works, in expense out	N A · · · · · · · · · · · · · · · · · ·	39 375
sing)	in-pressed but. Ib	32 15	.40 20
[Suann	LISP bulk KIND	47.00	-
Stronh	In Carporara A	37'4	-
Stront	hum nitrate, 50-15 bgs. c1. Works 100 lbs no monoruer, 99.6° min 10.	51.50	27
Styrer	The secretary transition in the bulk	23 77	-
١,	royal bulk, same basis lb	77 77	BI Bi
lc	clear, same basis	2 35	
Suice	of acutate, ones, cryst, dms, t1, ones, acid, punit, cryst, dms, t1, ip (rt and, punit, cryst, dms, t1, t1, f o b) (moanthydride, dms, c1, t1, f o b)	2 00	2 10
Succ Succ	work while by s. c1, f.o b	1 71 33 10	-
500	acotato isobulytate 90 ·		_
	ants divid.	1 10	1
00 ∫ Sud	00°s, dms . 11 . dlvd. crose octa-ncetate, denaturino grade. 100-lb. dms . 1 o b	3	13 50
00	works 500 kilos kil	o 1250 3 3950	-
_ 5u	Madelizatinga same	0 2700	-
) Su	ulfacelamide, USP, dins . 50	20.00	23.50
- \Su	ulfadiazine, USP, powd. dms 50	<u> </u>	-
~ Si	ulfadiazine sodium, USP, dms , 5/ kilos. ulfamerazine, USP, microcrysta	15.	_
- 1	dms. 500 to soo to look	in 32.00	-
- \s	MIAMOURAZE IN SUSTAIN E	ക വാഗ	-
- \s	Surfamethazine, powder, disk	(fig. 9.00	10.00 41.00
1	770170	T.I .	41.00
- \;	Sulfamic scid, gran cums works Sulfamilianide, NF, reg. 1,000-lb. de fri. equald.	, 16 .30 119., 15. 2.00	_
- []	fri. equald Sullanific acid, tech , bgs., t.l., f.	. b 67	
- }	Sulfaquinoxeline, veterinary, gr	ace. 800	, -
- \	Sulfur, crude, bright, molten, dom,	10 b p-10n 18.0/	
-	I o.b. La. rely	d-ton 120.0	Ŏ 122 00
_ \	ex terminal Hotterball	or US	yo 85 00
_	delvery los dark ex-Tampa pice subject to \$1 Tampa pice subject to \$1		o deconni (or —
-	most customers.	comi	
-	Sulfur, crude, 98.50-lb bgs., c.). flow, 50-lb bgs., c.). basis tump, same basis	. minera 100 lbs - 13 100 lbs - 13	60 -
5.50	CINTIR POID. 05.0.	and ha.	
-	915	100 lbs. 1: eme ba-	7.50
-			0.00
-	Sulfur, refd , substract, min. purity, 50-ib i	100 09	B 00 -

WEEK ENDING DEC. 26, 1986

Sulfuric acid, virgin 100% tanks, works,		
East Coast too	71.75	95.90
Gulf Coast ton	75.00	86.40
Midwest ton	80.25	00.40
Southeast ton		-
West Coast	68.15	_
MOTE: For select on 20 and 20 m.	86.00	
NOTE: For prices on 60 and 66 Be.	multiply by	·.7767 ø
ישו באו האונים, respectively. For price of	20% tumin	n Alaum e
48, 800 63-34 to above niices and	fam dilibake hui	1.045.
OUTUITO ECCO, STREIGEY, 1000% tenka word	(9.	
Guil Coast ton	48.00	52.00
New Maxico	20.00	25.00
SOUTHBASE ton	63.15	20.00
93%, tanks, divd., Northwest ton	60.00	05.00
Sunflowerseedoll, crude, f.o.b. Min-	00.00	65.00
nespolls	.1415	.15
Superphosphate, triple, 46% or more,	.1477	-13
A C a run-of pile bull of		
a.p.a., run-of-pile, bulk, c.l.,		
Flaunit-ton	2.75	3.06
bulk, gran , c.l., Fie ton	160.00	165.00

Tark. dom., grd New York bgs., cl., servise. Sp. 14. dom., grd New York bgs., cl., servise. Sp. 14. dom., grd New York bgs., cl., servise. Sp. 14. dom., grd New York bgs., cl., works. in 18. do. 90.00 Talc. dom., grd Sp., cl., works. in 1870 238.00 628 meth, micronized grd., grd., dom., grd. dom	99.5%, 325 mes works alc. dom., 99.5%, 40				Toluene, petroleum, Ind. or nitration, tanka Atlanta, Ga., clivdgel	'n
Tate, does, get New York bgs, cl., 98.400 90.00 Pale, dorn, 99.3%, 400 mesh, more very services, provides of the provides of	99.5%, 325 mes works alc. dom., 99.5%, 40				Beyonne, N.J., divd	0
Sec. dom., got. New York bgs., c.l. on 0.1	99.5%, 325 mes works alc. dom., 99.5%, 40				Chicago, III. divd	
## 19-95%, 35 mesh, bgs., cl. ## 19-95%, 001 mesh, bgs., cl. #	99.5%, 325 mes works alc. dom., 99.5%, 40	ork bgs., c.i.,			I GARON, PS., 1.0.b. nat 7:	0
Talic dom, 98.35, 400 mash, milk on 200.00 Talic dom, 98.35, 400 mash, milk on 200.00 C.L. works. milk per control in 187.00 Tali oli, cruce, Southeast, tank b. 30 Tali oli, cruce, Southeast, tank b. 31 Tali oli, cruce, Southeast, tank b. 32 Tali oli acide, 7% or more rosin, tanks, works, the spender report of the cruce of the c	elc. dom., 99.5%, 40	in bas el		-	I FI. YYAYNO, INC Qiyo qat 7:	
cortizad, bgs. c.l., works. ion 1870 0 288.00 525 mate, microsited by 200.00 cod. cod. cod. gr.d. god. 30.00 cod. simp. Canadian. gr.d. bgs. c.l. cod. 318.00 cod. cod. cod. gr.d. god. god. god. god. god. god. god. g	DIC. COIII., 89.376, 40	ton	94.00	90.00	GUI Coast, spot, bernes	8
625 mesh, microrized, bgs. 1. v. vords. 081, grd., bgs. 1. v. 190.00 dom. v. Co. 081, grd., bgs. 1. v. 190.00 dom. v. C	Cronizea, bas., c.i.	. WIVE IOO	197 00	228 00	I NEW Jersey Metro, divd oal 74)
dom., ord., Calif. grd., bgs., cl. 1 overs. 1 (1) (1) (1) (1) (2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	ozo mesn. micza	10128d bas		230.00	l Pheadelphie, Pa., divd čel 7/	0
C. L. words. 1. squad. 193. 00 180.00	dom., ord., Calif. ard	ton 1 bas e l	200.00	-	Toluena di-isocyanate (mixed isomera).)
Description			90.00	_	80%, 2,4- and 20% 2,8- isomers,	
Imp. Caradian. grd., bgs., ci. 70.00 84.00 71.01 of Lock, Sp. Southmast. Lank of the Control of Co	C i., works	x grd., bgs.,	138.00		P-10(1) enesuitonemide, nowel, dos	
Fall of L. crude. Southeast. Lon. 90.00 100.	IIIP., Canadian, ord.	bos. c i	130.00	-	I I.I., WORKS Do 3 SE	, .
Tall of, rest, accided in the service of the servic	worksall oil. crude. Southe	(On	70.00	84.00	De l'Olulchine, (ech., lig., rime, c.). (b. 20	
Fact Color Series	WORKS, 1rl, equald	Inn	90.00	100.00	I Vulk, Same Deals Ib an	
	iii 04, reid., acid, sama b	aala ih	.31	-	cl. works	
works, if equaid. b. 20½ 23↑ Tallbur (sans) sacists. facth, non-ret. 1916. Age (sact) sacts. facth, sacts. facts. fact	ili dii acids, 2% or more i	rosia, tenks	.19	.23	I 40., IANKS, SAMA basis Ib. 170	
Tallow, Larty acides, fach, non-ret. **Tallow, Larty acides, fach, non-ret. **Charles, J. L. Ched.** **Defragorate lach, false, bgs., cl	Works, frl. equaid.				Toluidines, mixed organ tech Fould	
### Strate of the control of the con	110W (588 CNS. FAIS & W)	Aves merkete	.22 800rt.)	.27] G.I. I.O.D. WOYKS IN 102	
## Annual Contract 1985 19	uruw. Iany ockos taci	D DOD.FOI			I Dunk Sanne nosto	
nyorigenated, tech. false, ggs., c.i., div. d. b. 37 33 are div. d. b. 37 33 are decided to the control of the	DELITICAL COMO	To.			I CINCIDIANI, COMO IL 200	ı .
Toxageria and Manageria (1986) 1. 35 42 1	nyurogenated, tech flat	ka bos ct	.20	.40	TORKA DORAN. Angostura prime	
Testern continue 1.0	tanks, divd	· · · · · · · · lb.			I IVXIII/IBINB.CITISIC.III Worke B. Go	
Territage, enimal feeding, 9-119s, NHs, NHs, NHs, New York, buts	YIQBNIBOIL FIAL. dime fo	nh lh			I TESTELLER VILLER III. NO. 1. PINNORII COD IN 24 AA	
Tarriago letra yade (see Nitrogenous process tankage). Tarriado (N. 1, 10th), bbis. 1, 1000-b. bots	KANAN AMB	le I e		-	I DEUKBEIDEWOOF. By 40.50	15.
Tributy place is the process tarkage). Tributy place is 1.000 b. 1.70 teach, powd, cms. b. 4.82 c. 1.25 c. 1.2	INDIAN ALDER LATER	amil ton	5.50	_	I ITIDUTYI CITIATO. T.I., druma 10h	•
tesh. powed., dms. b. 6.09 1.00	UK200. 1811. (1714 b.) qab t	Vilonosana a	roceas tan	kage).	1 WXXXS	
Tech., powd., drss. 1. 482	PARCOCK, INC., HUNY, DIDE	8 I.UK/U- RO.		•	T ITTUUTYIRINNIN ONSC.L (IVAL III) 420	
Tar act of 0, 15-18's L1, dms, 1, o.b works gal 1.40 - 25-28's, L1, dms, 1, o.b works gal 1.59 - 25-28's, L1, dms, 1, o.b works gal 1.59 - 25-28's, L1, dms, 1, o.b works gal 1.59 - 25-28's, L1, dms, 1, o.b works gal 1.59 - 25-28's, L1, dms, 1, o.b works gal 1.59 - 25-28's, L1, dms, 1, o.b works gal 1.50 - 25-28's, L1, dms, 1, o.b works gal 1.50 - 25-28's, L1, dms, 1, o.b works b. 1.20 - 25-28's, L1, dms, 1, d	WCII DOWO AMR	ile.		Ξ	I COMPANIA CONTRACT IN 1990	
29-28**, 11, drns., 1.o.b. works. gal. 1.59 Tarriar cack. NF bgs. b. 1.20 Terpin yorkse, 15, b. 1.20 Terpinyl acatate, extra, drm. b. 1.35 Terpinyl acatate, extra, drm. c. 2.40 prime, drms. b. 1.35 Terpinyl proplemete, ms. b. 4.50 Terpinelose, 15, b. 1.25 Terpinyl proplemete, ms. b. 4.50 Terrachroreshylere, tech; (see Perchloroethylere), 11, 12, 11, works. b. 1.52 Terrachroreshylere, tech; (see Perchloroethylere), 12, 11, works. b. 1.52 Terrachryl orthosticate, bulk, 1.o.b. 50 Works. t. b. 1.53 Terrachyl yorkse, 15, b. 1.50 Terrachyl yorkse, 15, b. 1.5	r acto on, 15-16% ()	dms. in h		_	I Trichioroacetic acid. tech. 300-lik	
Triardra dad, NF, bgs. 1. 1. 20 1.50 Teautum, metallurgical, f.o.b. works b. 12.00 Teautum, metallurgical, f.o.b. works b. 12.00 Si kolo drums, f.o.b. shp. pi., tri. equid b. 1.35 Terpinyl dystake, NF, imp., cryst, powd. 36 kolo drums, f.o.b. shp. pi., tri. equid b. 1.35 Terpinyl gostake, NF, imp., cryst, powd. 36 kolo drums, f.o.b. shp. pi., tri. equid b. 1.35 Terpinyl propionale, dims b. 1.35 Terpinyl propionale, dims b. 1.35 Terracitoroeithylene, USP dms., cl t b. 1.35 Terracitoroeithylene, USP dms., cl b. 1.50 Terracitoroeithylene, USP dms., cl b. 1.50 Terracitylene glycol dacrylate, Li. dms., f.o.b. works b. 1.50 Terracitylene glycol dacrylate, Li. dms., f.o.b. works b. 1.50 Terracitylene glycol dacrylate, Li. dms., f.o.b. works b. 1.50 Terracityl-grouph distriction of the state of the	45-46%. t.l. dms l.a.h.	Write onl		-	I USP, Williams in aguald in ag	
leanum, melallurgical, f.o.b. works b. 12 00 36 kolo drums, f.o.b. shp. pi. fri. equald. b. b. 1.36 ferpingol b. b. 1.36 ferpinyd ocatate, extra, dms b. 1.40 prime, dms. b. 1.35 ferrachioroethylene, tech. (see Perchioroethylene). ferrachi	30-33%, I.I., dms., I.a.h.	works as		-	I "IS" I I I I I I I I I I I I I I I I I	
respin hydrate, NF, Imp., cryst., powd. 36 kilo drums, I.o. shp. pl. 1-pripyd acetate, extra, drise . b. 1.05 repripyd acetate, extra, drise . b. 2.40 prime, dms b. 1.55 repripyd proplonate, dms b. 1.55 retractionositylisne, tech. (see Perchloroethylene). retractionositylisne, tech. (see Perchloroethylene). retractivityl orthosticate, bulk, I.o.b 30 to . retractivityl orthosticate, bulk, I.o.b	Manc acid, NF, bos	Th		1.50	1.1.1-Trichigroethene teaks coo	٧ -
Sh kib drums, f.o.b. ship. pl.	10 in involvatie. NF. imo ca	rust nawd	12.00	-		V 2
Jerping catate, extre, dms	JU KIID DIIIMIN I A	n ehm m			'''''' '''' '''' '''' '''' ''''' ''''' ''''' ''''' ''''' ''''' ''''' ''''''	
lephryl acetate, atm, dms	ipaneol	h				
lerphyl propionate, dms	rpunyi acetale, axtra, dm	e n		1.50	I INTERCOCUSOCUSTUDO A 4 A P	
letractivocethylene, USP, 100-kib. fetraching riches, 100, 100 kib. fetraching riches, 100, 100 kib. fetraching riches, 100, 100 kib. fetraching riches, 100 kib. fetrachiorities, 100 kib. fetraching riches, 100 kib. fetrachiorities, 100 kib. fetrac	orme, ame	. th	1.35	2.05	I PARQUIB CITIME 6556 GAR BOD TO	
in the process of the control of the	UZCOJOROBINYBOB. JACH	1990 Parchier	4.50 Dethylenat	-	I WINS. LOUBLIN MYR ANA B. 466	
retraethylene glycol (tanks, irt. aid. b. 6.7 – fetraethylene glycol (tanks, irt. aid. b. 6.8 – fetraethylene glycol (tanks, same basis. b. 1.50 – fake, dms. Li. fri. aid. b. 6.8 2.07 atrahydroluran dissulfide, tech. fake, dms. Li. fri. aid. b. 6.8 2.07 atrahydroluran dms. c.i. Li. fl. b. b. 6.8 – fetrahydrolurinyl alcohol tanks, f.o.b. b. 6.8 – fetrahydrolurinyl alcohol tanks, f.o.b. b. 6.5 – fetrahydrolurinyl alcohol tanks, f.o.b. 6.5 – fetrahydrophithalic anhydride dms. c.i. fl. fl. fl. fl. b. works. b. 6.5 – fetrahydrophithalic anhydride dms. c.i. fl. fl. fl. fl. b. works. b. 6.5 – fetrahydrophithalic anhydride dms. c.i. fl. fl. fl. fl. b. works. b. 6.5 – fetrahydrophithalic anhydride dms. c.i. fl. fl. fl. fl. fl. fl. fl. fl. fl. fl	" wor to controlle. Uar.	. DARS CI		•	I WORKS IL 400	
retraethylene glycol, tanks, frt. alid, b. 67 retraethylene glycol diacrylate, t.t. 67 etraethylene glycol diacrylate, t.t. 67 etraethylene glycol diacrylate, t.t. 67 etraethylene glycol diacrylate, t.t. 67 etraethylenepentamine, tanks, same basis. b. 1.50 etraethylthluram diaeulfide, tech. flake, dms., t.t. frt. abd. b. 68 etraethylthluram diaeulfide, tech. flake, dms., t.t. frt. abd. b. 68 etraethylthluram diaeulfide, tech. flake, dms., t.t. frt. abd. b. 68 etraethydroluran dms., c.t., t.t., fo.b. 68 etrahydroluryl alcohol tanks, f.o.b. 98 etrahydroluryl alcohol tanks, f.o.b. 98 etrahydroluryl alcohol tanks, f.o.b. 98 etrahydrophthalic anhydride dms., c.t., t.t. fo.b. works. b. 1.50 etrahydrophthalic anhydride dms., c.t., t.t. fo.b. works. b. 1.50 etraboluseum phosphate (see Potessium phosphate, tetrabasic). etrasodium pyrophosphate (see Sodium pyrophosphate). etras	u aetriyi Oztrosukcate	Dulk. Loh.	.304	-	I II NASSAYI MICKIKIN ITMYOCH HEAVIOREN Annien	1.
etraethylene glycol diacrylate, t.f. dms, f.o.b. works, b. 1.50 etraethyliniuram diaulifide, tech. fake, dms, t.l. fri. abd. b. 68 2.07 fatrahydrolurar dms, c.l., t.l. fo.b. works. b. 1.02 tanks, same basis. b. 1.02 triethyl phosphate, tanks, dwd. b. 1.82 triethyl phosphate, tanks, dwd. b. 1.85 triethylene glycol dipelargonate, tanks dwd. b. 1.82 triethyl phosphate, tanks, dwd. b. 1.85 triethylene glycol dipelargonate, tanks f.o.b. works. dwd. b. 1.85 triethylene glycol dipelargonate, tanks dwd. b. 1.82 triethyl phosphate, tanks, dwd. b. 1.85 triethylene glycol dipelargonate, tanks f.o.b. works. dwd. b. 1.85 triethylene glycol dipelargonate, tanks f.o.b. works. dwd. b. 1.85 triethylene glycol dipelargonate, tanks f.o.b. works. dwd. b. 1.82 triethyl phosphate, tanks, dwd. b. 1.82 triethyl phosphate, tanks, dwd. b. 1.85 triethyl phosphate, tanks, dwd. b. 1	WORKS	lle.		1.86	Triet/ronolamine, 85%, tenks, divid 5, th.	-
dms. (o.b. works,	ireutryione givcol dia:	Crviate. + f	.67	-	1 9979, LENKS, SAMA hacle 15 of	•
basis. Ib. 1.70 1.75 fake, dms. I.I. fir. tald. ib. 68 2.07 fake, dms. I.I. fir. tald. ib. 1.02 fake, same basis ib. 98 - friethyl clorate, I.I., dnums, f.o.b. works ib. 1.82 friethyl clorate, tanks, flob. Guif ib. 47 friethyl clorate, I.I., dnums, f.o.b. works ib. 1.82 friethylene glycol tanks, flob. Guif ib. 47 friethylene glycol tanks, flob. 60% tanks, flob. Solos tylene, tanks, flooweds. Ib. 35 friethylene glycol tanks, flob. 60% tanks, flob. Solos tylene, tanks, flooweds. Ib. 35 friethylene glycol tanks, flob. 60% tanks, flob. Solos tylene, tanks, flooweds. Ib. 35 friethylene glycol tanks, flob. 60% tanks, flob. 60% tanks, flooweds. Ib. 35 friethylene glycol tanks, flob. 60% tanks, flooweds. Ib. 40-80% tanks, flooweds. Ib. 40-80% tanks, flooweds. Ib. 40-80% tanks, flooweds. Ib. 41-40-80% tanks, floweds. Ib. 567 friethylene glycol tanks, flob. 60% tanks, flooweds. Ib. 40-80% tanks, flooweds. Ib. 40-80% tanks, flooweds. Ib. 567 friethylene glycol tanks, flob. 60% tanks, flooweds. Ib. 40-80% tanks, flooweds. Ib. 567 friethylene glycol tanks, flooweds. Ib. 567 friethylene glycol tanks, flooweds. Ib. 567 friethylene glycol tanks, flooweds. Ib. 567	UMS LO.D. WORKS	n n	1.50	_	Lob works	٠
retrathyticuluram disulfide, tech., fake, dms., t.l., frt. abd. ib68 2.07 retrahydrofuram dms., c.l., t.l., fo.b	D2918	II.	1 70		I HOU I YOU TIME OF ANAL IS A SE	
alrahydroluran dms., c.l., tr., t.o.b. works	raetnyiiniuram disulf	ide tech	1.70	1.75		
works b. 1.02 - letrahydrofuriury alcohol tanks, 6.b. 96 - letrahydrofuriury alcohol tanks, 6.b. 98 - letrahydrofuriury alcohol tanks, 6.b. 90 - letrahydrofuriury alcoholol tanks, 6.b. 90 - letrahydrofuriury alcoholol tanks, 6.b. 90 - letrahydrofuriury alcohololol tanks, 6.b. 90 - letrahydrofuriury alcoholololololololololololololololololol	Nake. Oms Life s	allel in	.68	2.07	works Li., grums, 1.o.b.,	
tanks, same basis b. 96 - leitahydrofurfuryl alcohol tanks, f.o.b. Memphis, Tenn b. 90 - etrahydrofinalcod, syn., dms. ib. 7.20 - etrahydrofinalcod, syn., dms. ib. 7.20 - etrahydrophthalic anhydride dms. c. l., f.l. f.o.b. works b. 65 - etrapotassum phosphate (see Potessium phosphate, tetrabasic). etrabasic betrabasic betrabas	WORKS	lh.	1.02		I I POULVI LITERIO PARIA TANDE AND THE ALE	
letrahydrofination syn., dms. b. 720 - fetrahydrofination syn., dms. b. 65 - fetrasodium pyrophosphate (see Potessium phosphate, tetrabasic). fetrabasic.) fetrab	YXS. SAMO DASIS			-		-
etrahydrophratical syn. dms. ib. 7.20 elrahydrophthalic anhydride dms. c.l.,1.1 (n.b. works. ib. 65 elrapotassum phosphate (see Potassium phosphate, tetrabasic). eletrabasic.) halbum metal, divd. ib. 35.00 halbum metal, divd. ib. 35.00 halbum metal, divd. ib. 35.00 heobromine, bulk (n.b. works. kib. 140.00 150.00 heobromine, bulk (n.b. kib. 33.00 hindiphenol, 98%, dms., 1.0.b. works. lb. 3.35 hindiphenol, 98%, dms., 1.0.b. works. lb. 3.35 hindiphenol, 98%, dms., 1.0.b. hoobromine, bulk (n.b. hoobromine, bulk (Memohis Tena	ı.	00			14
refranciscophylanic anhydrate dms. cl. 1.f. l.f.o.b. works. ib. 65 elrapotassium phosphate (see Potessium phosphate, tetrabasic). elrabasic.) hatium metal, divd. ib. 35.00 hatium sulfate, 99%, bots, divd. kilb. 140.00 heobromine, buk f.o.b. works. kilb. 140.00 heobromine, buk f.o.b. works. kilb. 140.00 dms., 10,000-kilo bis. kilb. 12.00 dms., 10,000-kilo bis. kilb. 12.00 dms., divd. kilb. 33.00 histamine invariate, USP, 100-kilb. dms., divd. kilb. 33.00 histamine monoritrate, USP, 100-kilb. 33.00 histamine monoritrate, USP, 100-kilb. 33.50 histamine green toners, molybdated, PIA, dms. ib. 5.40 hongstated, PIA, dms. ib. 5.60 histoglycolic acid, reld., dms., ton lots 100% acid basis. b. 5.80 histografic acid, reld., dms., ton lots 100% acid basis. b. 5.88 histografic acid, reld., dms., ton lots 24,000-lb. min. 1.1. dms. frt. acid. b. 5.88 histografic acid sizes. b. 5.88 histografic a	ran mva looganjion dyn dir	18 (h		-	TO TO M LOURS. TULING MIGIO 1/4	yı -
eltrabodism pyrophosphate (see Potessium phosphate, tetrabasic.) eltrabasic.) halbum metal, divd b. 35.00 halbum metal, divd b. 35.00 heobromine, bulk 1,0 b. works kito 140.00 heobromine, bulk 1,0 b. wito 150.00 heobromine, bulk 1,0 b. works kito 140.00 heobromine, bulk 1,0 b. salv tanks, frt. equald, 100% basis. h. b. salv tanks, frt. equald, 100% basis. h. h. salv tanks, fr	runyarophinako annyd	iride dms	-			
etrabodium pyrophosphate (see Sodium pyrophosphate, letrabasic.) hatium metal, dwd. b. 35.00 - 140.00 - 140.00 - 140.00 - 150.00 - 140.00 - 150.00 - 140.00 - 150.00 - 140.00 - 150.00		aa Bataaai	Sheeshees	- (efrahasir)		1.7
halium metal, dwd. b. 35.00 halium sulfate, 99%, bots, divd kilo 140.00 heobyomine, buik f.o b. works kilo 140.00 150.00 dms, 10,000-kilo otis kilo 12.00 12.96 halium engloride, USP 100-kilo dms, 10,000-kilo otis kilo 33.00 hamine mononitrate, USP, 100-kilo 33.00 holofiphenol, 98%, dms, 1.0-b. works holofiphenol, 98%, dms, 1.0-b. works holofiphenol, 98%, dms, 1.0-b. sologycolic acid, relid, dms, ton lots 100% chilofich, relid, dms, ton lots 100% acid basis. hb. 5.40 8.65 hologycolic acid, relid, dms, ton lots 100% acid basis, tri, aid, ib. 5.60 5.85 form, tanks, frt, equald, 100% basis, tri, aid, E.b. 1.00 holofiphenol, 98%, dms, 1.0-b. sologycolic acid, relid, dms, ton lots 100% acid basis, tri, aid, ib. 5.60 5.85 form, tanks, frt, equald, 100% basis, tri, aid, E.b. 1.00 holofiphenol, 98%, dms, 1.0-b. sologycolic acid, relid, dms, ton lots 100% acid basis, ton lots 100% acid basis, tri, aid, ib. 5.40 form, chilofich, high-purity, 99,6%, 24,000-lb, min, 1.1, dms, frt, acid, b. 5.88 6.12 fungalic acid 92%%, dms, 1,750 6,000 lbs, works b. 12.85 furnancia, Alloppey 6%, b. 83	apolassium chosobate je	le (see Sodiu	m pyropho	sphate,		-
halitum sulfate, 99%, bots, divd. kilo 140.00 150.00 heobyromine, buik 1.0 b. works kilo 140.00 150.00 theophylline. USP, anhyd. 50 kilo dms., 10,000-kilo dms., 10,000-kilo dms., divd. kilo 33.00 them on hydrochloride, USP 100-kilo dms., divd. kilo 33.00 them on the standard kilo diversity of the standard kil	apotassium phosphate (si Tagodium pyrophosphat	lin.				V2 -
heophylline. USP, anhyd. 50-kilo dms. 10,000-kisolots kilo liz.00 12.95 lasis. h. lb. 63½ hasis. h. lb. 63½ hasis. h. lb. 68½ hasis. h. lb	apotassum phosphate (s asodium pyrophosphat tetrabasic.) Lium metal, divd	divide title		_	I TITION MINIMA ANDUM TANGA (-)	
dms. 10,000-kio lois kilo dms. 12.00 12.95 40% soln. tanks, frt. equald., 100% basis. 10.00% basis.	apotassum phosphate (s asodium pyrophosphat ietrabasic.) Eum metal, divd. Eum sulfate 99%, bore	rd 50.kus	140.00	150.00	1 2370 BOWN ., CAUNKB. FFF. ACTUALA 1 CANAL	yy -
transition hydrocrothoge, USP 100-killo dms., divd	apotaes um phosphate (s rasodium pyrophosphat letrabasic.) lium metal, divd. lium sulfate. 99%, bots. obromine, bulk (o. b. wy	O. JU-NIO	12.00	12.95		۷ <u>.</u> -
rismine monontrate, USP, 100- kito. drns. divd. kito. drns. divd. kito. 33.00 - drns. divd. kito. solid phenol. 98%, drns. 1 o b. works. lb. solidavin green toners, molybdated, PMA, drns. lt., drns. lt., fri. solidavin green toners, molybdated, pl. solidavin green toners, molybd	apotassum prosphate (si asodium pyrophosphat letrabasic.) lium metal, dwd. lium sulfate, 99%, bots. obvomine, bulk (o.b. wo ophylline, USP, anny dms., 10.000-kao ka	9 klio	_			I.S
dris., divid	apotassum prosphate (s asodium pyrophosphat letrabasic.) lium metal, divd. lium sulfate, 99%, bots. obromine, buik 1.0 b. wo ophylline. USP, anny dms., 10,000-kão lot mine hydrochloride, US	P 100- kilo	33.00	-	I PERPETABLISH THE PROPERTY OF THE TANKS IN THE	
works. 1b. 3.35 - Implemy phosphate, dris., it., atd., E. b. 1.00 Implemy phosphate, dris., atd., atd	apotassum prosphate (s asodium pyrophosphat letrabasic.) lium metal, divd. lium sulfate, 99%, bots. obromine, buik 1.0 b. wo ophylline. USP, anny dms., 10,000-kilo lot mine hydrochloride, US dms., divd. mine mononitrate, USP,	iP 100- kilo kilo. . 100- kilo			dms. to b. works	
iloflavin green toners, motybdated, PMA, dms	apotassum prosphate (s. asodium pyrophosphat letrabasic.) filium metal, divd filium metal, divd filium sulfate, 99%, oots. obvornine, bulk 1.0 b. wo ophylline. USP, anny d.ms., 10,000-kito lotturine hydrochloride, USP, dms., divd	P 100- kilo kilo. , 100- kilo.,	33.00	-	I Telepopte on about 1 to 1	-
tringstated, PTA, dmsib. 5.40 6.05 5.85 1/s-(hydromethyl) nitromethyl) nitromethyll nitrome	apotassum prosphate (seasodium pyrophosphat tetrabasic.) filium metal, divd. filium sulfate, 99%, bots. obtvomine, bulk f.o.b. wo ophylline. USP, anhy dms., 10,000-kao lotmine hydrochoride, USP, dms., divd., mine mononitrate, USP, dms., divd., odiphenol, 98%, dm works.	iP 100- kilo kilo kilo. kilo. kilo. lo. b.			I I MURI I I DELL'ATTICO TONNO TO ANA PERE	
tioglycolic acid, refd., dms., ton lots 100% acid basis	apotassum phosphate (seasodium pyrophosphat tetrabasic.) filium metal, divd filium metal, divd filium sulfate, 99%, bots. obromine, bulk 1.0 b. wo ophylline. USP, anny dms 10,000-kio lottomine hydrochloride, USP, dms divd dms divd dms divd diphenol, 98%, dm works works	iP 100- kilo kilo. . 100- kilo. kilo. kilo. lb. lb.			Triphenyl phosphate, cfms., t L. fr. 1.00	-
touth acid basis. b. 2.07 blondigold manoon, dris., frt. akid. ib. 7.50 beds, dris., frt. akid. ib. 7.50 beds, dris., frt. akid. ib. 5.88 c.12 blondigold manoon, dris., frt. akid. ib. 5.88 c.12 blondigold manoon, dris., frt. akid. ib. 5.88 c.12 blondigold manoon, dris., frt. akid. ib. 5.88 c.12 blondigold, tanks, trip. New York ib. 31 tungette acid, tanks, trip. New York ib. 31 tungette acid, tanks, trip. 12.65 turmerfo, Alloppey 6% ib. 83	apotassum prosphate (seasodium pyrophosphat tetrabasic.) filium matal, divd. filium matal, divd. filium sulfate 99%, bots. obromine, bulk 1,0 b. wo ophylline. USP, anny d.ms., 10,000-kilo lotterine hydrochloride, USP, dms., divd. mine monoritrate, USP, dms., divd. diphenol, 98%, dm works. flavin green toners, m. PMA, dms.	P 100- kilo kilo. , 100- kilo., kilo. is., 1.o.b. lb. olybdated,	3.35 5.40	- 6.05	Triphenyl phosphate, dms., £1, fr1. equatdb. 1.64 Triphenyl phosphate, dms., £1, fr1. equatdb. 1.64	.7
### 62.00 65 Construction of the control of the c	apotassum phosphate (seasodium pyrophosphat tetrabasic.) fium metal, divd. fium metal, divd. fium sulfate, 99%, bots. obvomine, bulk 1,0 b. wo ophylline. USP, anny dms., 10,000-kilo loti mine hydrochloride, US dms., divd. mine mononitrate, USP, dms., divd. diphenol, 98%, dm works. lavin green toners, mi PMA, dms. pykoolic acki. raid., dms.	P 100- kilo	3.35 5.40	- 6.05	Triphenyl phosphate, rms. atd., E. lb. 1.00 Triphenyl phosphate, rms., t.t., tri. equald	.7
10 10 10 10 10 10 10 10	apotassum prosphate (seasodium pyrophosphat terabasic.) fium metal, divd. fium metal, divd. fium sulfate 99%, oots. obromine, bulk 1,0 b. wo ophylline. USP, anny dms., 10,000-kio lotmine hydrochloride, USP, dms., divd. mine monoritrate, USP, dms., divd. diphenol, 98%, dm works. favin green toners, m. PMA, dms., ngstated, PTA, dms., ngstated, PTA, dms., 100%, and hasis.	P 100- kilo ib i	3.35 5.40 5.60 2.07	- 6.05 5.85	Triphenty printor, tanks, fit. add., E. lb. 1.00 Triphenty phosphate, dms., t.i., frt. squaid. b. 1.64 Tripropylene glycol tanks, f.o.b. b. 64 Tris-(hydromethyl) nitromethane, solid, t.l. works b. 60 Trisodium phosphate (see Sodium phosphate)	.; .e
equald	apotassum phosphate (seasodium pyrophosphat tetrabasic.) fium metal, divd. fium metal, divd. fium sulfate, 99%, bots. obromine, bulk 1.0 b. wo ophylline. USP, anny dms., 10,000-kilo lott mine hydrochloride, US dms., divd. mine mononitrate, USP, dms., divd. diphenol, 98%, dm works. flavin green toners, mi PMA, dms., 19Voolke ackt, reifd., dms 100% ackd basis. ndodis mroon, dms., if s. dms., fit, alid.	P 100- kilo kilo kilo kilo kilo kilo kilo kilo ib	3.35 5.40 5.60 2.07 7.50	- 6.05 5.85	Triphenyl phosphate, dms., trl. ald., E. lb. 1.00 Triphenyl phosphate, dms., ttl., trl. equald. b. 1.64 Tripropylene glycol tanks, 1,0,b. 8. 64 Tris-(hydromethyl) nitromethane, solid, ttl. works b. 60 Trisodium phosphate (see Sodium phosphate, tril	.7 .6 5 basio)
Turneno, Aleppey 5% , fb. 83	apotassum phosphate (seasodium pyrophosphat tetrabasic.) filium metal, divd filium metal, divd filium sulfate, 99%, bots. obromine, bulk 1.0 b. wo ophylline. USP, anny dms 10,000-kio lots mine hydrochloride, USP, dms divd mine mononitrate, USP, dms divd odiphenol, 98%, dm works favin green toners, me pMA, dms gstated, PTA, dms 100% acid basis 1100% acid basis odipold manoen, dms sis, dms fit. sid dms sid	P 100- kilo lb l	3.35 5.40 5.60 2.07 7.50	- 6.05 5.85	Triphensyl phosphate, dms., tit. aid., E. lb. 1.00 Triphenyl phosphate, dms., ti., tri. equald. b. 1.84 Tripropylene glycol tanks, i.o.b. b. 6.4 Tris-(hydromethyl) nitromethane, solid, t.l. works b. 6.00 Trisodium phosphate (see Sodium phosphate, tri. I-Tryptophan, dms. 25-kilo lote kilo 62.00 Tung oil tanks the New York	.7 .6 5 basio) . 65.0
	apotassum prosphate (seasodium pyrophosphat tetrabasic.) filium matal, divd. filium matal, divd. filium sulfate 99%, oots. obromine, bulk 1,0 b. wo ophylline. USP, anhy d.ms., 10,000-klo lotmine hydrochloride, USP, dms., divd. mine monoritrate, USP, dms., divd. diphenol, 98%, dm works. favin green toners, m. PMA, dms., ngstated, PTA, dms., ngstated, PTA, dms., ndgold cacid, refd., dms. 100% acid basis. ndgold maroon, dms., fs, dms., frt, ald. yd chloride, high-purlity 24,000-lot. min., t.t.	P 100- kilo kilo kilo kilo kilo kilo kilo lb	3.35 5.40 5.60 2.07 7.50 5.88	- 6.05 5.85	Triphenius rymnor, tanks, int. aid., E. lb. 1.00 Triphenyl phosphate, dms., t.i., tri. Squaid. 1.54 Tripropylene glycoi tanks, i.o.b. 5. Tris-(hydromethyl) nitromethane, solid, 1.1 works 15. Trisodium phosphate (see Sodium phosphate, trill-Tryptophan, dms. 25-kilo lots 160 Tung oil, tanks, mp. New York 15. Tungstic acid 9292%, dms., 1,750 6,000 bs. works	.7 .6 5 basio) 65.0
CHEMICAL MARKETING REPORTER December 29, 1986	apotassum phosphate (s asodium pyrophosphat tetrabasic.) Lium metal, divd	. divd. kilo orks . kilo od. 50-kilo	140.00 12.00	12.95	25% soin, tanks, frt, equald, 100% basis	V2 V2

_	Thortum nitrate, purif., dms., 100-lb.		
	lots or more, works	2.75	_
٠,	di-Threonine, dms 10 kilos wkskilo.	128.00	
	Thyme leaves, French, bgs lb.	1.45	_
	Spenish, bgs	.75	_
	Imyme cii, NF, red, dms kilo	20.00	_
	NF, white, dans	22.00	_
	Thymol, NFb.	3.75	6.15
٠ ا	inymol kodide, dms., 100-lbs. f.o.b.		
•	worksb.	52 .30	56.20
	Tin metal (NY composite) ib.	N.A.	-
	Titanium dioxide, anatase, bgs., 20-		
٠1	ton lots, frt. alid lb.	.77	.79
ì	slurry shipmenta, 50-ton lots, dry ba- sis, irt. alid	70	
_	Titanium dioxide, rutile, reg., bgs., 20-	.78	-
	ton fots, frt. ald	.81	.84
	siury shipments, 50 ton lots,	.01	.04
	dry basis, frt. alid	.84	_
	Non-chalking rutile material costs 1c. pe	r nouund m	Ore.
	Titanium hydride bowd, electronics	و. سام م	0101
	grade, dms	26.50	_
nd	i itanium tetrachioride, tech., bulk. o.i.		
25	1.o.b. works	.30	.35
	I 200-04 Cylinders of earne hasin th	.50	_
	Гимпии аролде, 99.3%, liber drums.		
	fess than 5,000 lbs. f.o.b.		
	Wksb,	4.85	-
	Toblas acid, 2,000 lbs. or more ib.	2.45	-
	d-a-Tocopherols, 67%, dma kāo d-a-Tocopheryl acetate, 61% conc.,	50.08	-
	dmskilo	27.40	
	d-a-Tocopheryl acid succinate, cryst	67.49	-
	i dinakilo	78.44	
	di-a-Tocopherol, dms	27.40	-
	di-a-Tocopheryl acetate, USP 50-kilo	E1.40	-
	dm. 1000 kilo min	16.00	18.60
	50% dry powd., 50-kilo dm kilo	17.00	
	Tolu balsam, cns	7 60	8.68
	i i ciuene, petroleum, ind. or nitration, tanks	1	
	Atlanta, Ga., divd gal.	.70	-
	Bayonne, N.J., divdgal.	.70	-
	Beylown, Tex., f.o.b get	.70	-
ı	Chicago, III. divd gal.	.70	-
	Clairion, Pa., f.o.b gal, Deer Park, Tex., f.o.b gal.	.70	-
	Ft. Wayne, Ind., divd gal.	.70	-
	Gulf Coast, spot, barges gal.	.70	-
	Houston, Tex., divdgal.	.78	-
	New Jersey Metro, divd gal.	.70 .70	-
	Prisace Dola, Pa., divid	.70	-
	Providence, R.I., divd dal	.70	
	CHUSHE CHISOCYANAUS (MIXEC ISOCHERS).		-
ı	60%, 2.4- and 20% 2.6- isomers		
ı	kumbo tankcara, divd. Ib	1.01	_
ı	p- i oruenesuitonemide, powd., dms.,		
ı	T.I., WORKS	3.55	-
1	m-Tolukine, tech., bulk	8.10	-

	Toluene, petroleum, ind. or nitration, ta	nke	0.
	Atlanta, Ga., divdgel.	.70	
	Bayonna, N.J., divdgal.	.70	
	Beylown, Tex., f.o.b get,	.70	
_	Chicago, III. divd gai,	.70	
	Clairion, Pa., f.o.b gal,	.70	
	Deer Park, Tex., f.o.b get	.70	
	ft. Wayne, Ind., divd oat	.70	
	GUS CORRE, SDOL barries	78	
	I MOUSION, Text., clvd	.7Ŏ	
	I New Jersey Metro, divd oal.	.70	
	Pheadelphia, Pa., divd del.	.7ŏ	
	I Providence, R.L. divd dal	.70	
	COLUMN CHISOCVENSIG (Mixed leconers)		_
	1 60%, 2.4- and 20% 2.6- isomers		
	l kumbo tankeara divdi ib	1.01	_
	p-Toruenesuitonemide, powd., dms.		_
	I I.I., WORKS fb	3.55	_
	m-rowane, tech., bulk	3.10	
	O- I Oluktine, lech., liq., dms, c.i /b	.72	- 3
	Dulk, same baais	.60	ï.
	P. I Oluidine, tech, cast solid dime	.00	
	Cl.,Works	1.80	1.8
	LO., TANKS, SAMA basis II.	1.70	
	Make, same basis	1.95	_
	roculgules, mixed, c-m-c, tech liquid		
- 1	G.F. I.D.D. WORKS IN	1.03	_
- 1	DUK Same basis	.95	_
	ONTREZOIB, OMS., 1,000-lb, lobs. for b		
	Cincinnati, Ohio . Ib	2.90	_
	TORKE DOENS, ANGOSTURE, Drime		
- 1	1.VUHD. IOTS	6.50	_
	OXEDITEDE. COMS., C.L., t.L. works th	.38	_
	Tracitation from the track of the second control of the second con	36.00	40.0
	flaked powder	12.50	15.0
	Triscetin tanks, divd. E	.75	-
	Tributyl citrate, t.l., drums, f.o.b.,		
L	works	1.70	-
- [Tributyl phosphate, lanks, works ib.	1.65	1.7
ŀ	Tributylamine, dms., c.l., dvdib.	1.39	-
ı	tanks, same basis	1.33	-
ı	dae of tob works		
ı	dms.,c.l., f.o.b., works ib. USP, 100-ib. dms., frt. squaid ib.	.94	-
	1,2,4-Trichiorobenzene, pure, tanks,	.991/2	-
I	UND	0444	
I	1.1.1-Trichigroethane, tanks, con-	.811%	-
	Sumers, civo	4514	
I	1,1,2-Trichtoroethane, tanks, f.o.b.	.401/2	

IOO IL TOURS ID.	84	-	with manufact 4 and	IG M.	
100-lb. dma., frt. equald lb.	991/2	- 1	with mannitol. 1,000 mcg], per	
UTIIOTODBOZBING, DUTA, tanka			CIDADO CIDADO DOS CIDADOS D	athde.	19.45
174	611/2		YILBIND () 1% VILAMIN A IJSI	D ah.	
ichloroethane, tanks, con-	0172	- 1	sorbed on realn, 5-kilo dms	SAO.	
imore died (Sinks, CON-			Oraminte frt olid porgene	., 000	45.4-
umers, divd	40V2		gram lots, frt.alid. per gram	activity	15.65
ichichoathana, lanka, fo b		1	Vitamin B ₁₂ , 1% cobalamin concer	itrate,	
ORB In	42	1	ivi auauroen on ragin	NVIIV	
		- 1.	UMS., IT. AIKI, NAI oram acti	hde.	15.40
descriptions of description in	381/2	- 1	Vitamin Bis, 1% cyanocobalan	alo io	10.40
secyanuric acid, drnsib. 1.	25	-	gelatin, 2.5-kilo dms.	mri wi	
phenoxyacetic acid (see 2,4,5-T).			goldin, 2.3-kild dmg.	, irt.	
6 Citrotte, 0.5%, 80th , non- ret			Alidper gram a	Ctivity	15.40
	95	1.3	THE PROPERTY OF THE PROPERTY O	•	_
Dhoenhate teeks 4 - b	35	- '	VITBITIIII D (See Cholecaldiceou		
phosphate, tanks, f.o.b.			VIRENTEN Da (SRR Codiliver and Ciels	Auge offe	
orksib. 1.	60 1	i.76	Vitamin E (see a-Tocopherol and	IAR OIL	Ŋ.
MCOROL MIXED ISOMBIA tanka	,		Membrus Ligon Blasses	vvneat (38m oil).
MOh	57				
		- 1	Violet methyl toner (see Methyl vi	ofet ton	er\
inke come hearly	35	.37			,
inks, same basisIb.	35	.37			
CIENTINO IBLITYL SUMATA, tonko		····			
U.D. WORKS IS	27 14	A744			
		.271/2			
	323				
		- !			
SOUTH DRIEBLA	20	- 1			
citrate. Li. drama (ob		-	YY		
citrate, L.I., drums, f.o.b., orks	20	-	YY		
citrate, L.I., drums, f.o.b., orks	20 82	- -	W.		
citrate, LL, drums, f.o.b., orks	20 82 15	- -	Warterto 0 594 dans to be 40		
citrate, Li., drums, f.o.b., orks	20 82	-	Verfarin 0.5%, dms., ton lots, fri	. alid.	
citrate, LL, drums, f.c.b., orks	20 82 15		Vertarin 0.5%, dms., ton lots, frt New York or Chicago.	-	.75
citrate, LL, drums, f.o.b., orks	20 82 15 47		Wheat germ oil, cold-pressed	lb.	.75
citrate, LL, drums, f.o.b., orks	20 82 15	_	Wheat germ oil, cold-pressed,	lb. . gal.	16.50
citrate, Li., drums, f.o.b., orks	20 82 15 47 291/2	_	Wheat germ oil, cold-pressed,	lb. . gal.	
citrate, LL, drums, f.c.b., orks	20 82 15 47 29½	_	Wheat germ oil, cold-pressed, cold-processed White precipitate, USP, nowd 16	Ib. . gal. . gal. Vuls	16.50 14.00
citrate, LL, drums, f.o.b., orks	20 82 15 47 291/2	- \\	Wheat germ oil, cold-pressed, cold-processed White precipitate, USP, powd., 10	Ib. . gal. . gal. Vuls	16.50 14.00
citrate, LL, drums, 1.0.b., orks	20 82 15 47 291/2 35 43 1	- V 45 V	Nheat germ oil, cold-pressed, Cold-processed White precipitate, USP, powd., 10 dms., 1.0b, works. Whiting see Galcium carboonles	Ib. - gal. - gal. XO⊣b. Ib.	16.50 14.00 7.892
citrate, LL, drums, f.c.b., orks	20 82 15 47 291/2 35 43 1	- V -45 V	Wheat germ oil, cold-pressed, Cold-processed Cold-processed White precipitate, USP, powd., 10 dms., 1.o.b. works Whiting (see Calcium carbonate). Whitergreen oil says from Metalling	. Ib. - gal. - gal. XO-Ib. - Ib.	16.50 14.00 7.892
citrate, LL, drums, f.c.b., orks	20 82 15 47 291/2 35 43 1	- V -45 V	Wheat perm oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(White precipitate, USP, powd., 1(Whiting (see Calcium carbonate), Whiting (see Calcium carbonate), Witch hazel berk, Jula	Ib. - gal. - gal. XO-Ib. Ib. Balicylat	16.50 14.00 7.892
citrate, LL, drums, f.c.b., orks	20 82 15 47 29½ 35 43 1 61 45	- V -45 V	Wheat perm oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(White precipitate, USP, powd., 1(Whiting (see Calcium carbonate), Whiting (see Calcium carbonate), Witch hazel berk, Jula	Ib. - gal. - gal. XO-Ib. Ib. Balicylat	16.50 14.00 7.892 6).
citrate, LL, drums, f.o.b., orks	20 82 15 47 291/2 35 43 1	- V -45 V	Wheat perm oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(dms.1.o.b. worke. Whiting (see Calcium carbonate). Whitegreen oil, syn. (see Methyl a Witch hazel bark, bis. leaves, bis.	Ib. - gal. - gal. XX-Ib. Ib. Balicylat Ib. Ib.	16.50 14.00 7.892 6). 1.35 1.75
citrate, LL, drums, f.o.b., orks	20 82 15 47 29½ 35 43 1 61 45	- V -45 V	When you or Chicago. What germ oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(dms.1,0.b. worke. Whiting (see Calcium carbonate). Whitergreen oil, syn. (see Methyl o Witch hazel bark, bis. 16aves, bis.	lb. - gal. - gal. XO-lb. lb. salicylat lb.	16.50 14.00 7.892 6). 1.35 1.75
citratia, LL, drums, f.c.b., orks	20 82 16 47 29 1/2 35 43 16 16 17 17 18 18	- V -45 V	Wheat perm oil, cold-pressed, cold-pressed, cold-pressed white precipitate, USP, powd, 1(dm, 1.0.b. works, 1.0.b. works, whiting (see Calcium carbonate). Whitegreen oil, syn. (see Methyl switch hazel berk, bis. 1eaves, bis. 400 mesh, bgs., c.l. works, 325 mesh, brs. c.l. works.	Ib. - gal. - gal. XO-ib. Ib. Balicylat Ib. Ib. ton	16.50 14.00 7.892 e). 1.35 1.75 134.00
citratia, LL, drums, f.c.b., orks	20 82 15 47 29½ 35 43 1 61 45	- V	Wheat germ oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(dms.,1.o.b. works. Whiting (see Calcium carbonate). Whitegreen oil, syn. (see Methyl switch hazel bark, bis. leaves, bis. 400 mesh, bgs., c.l. works. 325 mesh, bgs., c.l. works.	lb. . gal. . gal. XO-lb. lb. salicylat lb. lb. . ton . ton	16.50 14.00 7.892 e). 1.35 1.75 134.00 117.00
citrate, LL, drums, f.o.b., orks	20 82 15 47 291/2 35 43 1 45 67 1 547/2	- V	Wheat germ oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(dms.,1.o.b. works. Whiting (see Calcium carbonate). Whitegreen oil, syn. (see Methyl switch hazel bark, bis. leaves, bis. 400 mesh, bgs., c.l. works. 325 mesh, bgs., c.l. works.	lb. . gal. . gal. XO-lb. lb. salicylat lb. lb. . ton . ton	16.50 14.00 7.892 e). 1.35 1.75 134.00
citratis, LL, drums, f.o.b., orks	20 82 15 47 291/2 35 43 1 45 67 1 547/2	- V	Wheat perm oil, cold-pressed, Cold-processed White precipitate, USP, powd., 1(dms., f.o.b. worke. Whiting (see Calcium carbonate). 1	lb. . gal. . gal. XO-lb. lb. lb. . ton . ton . ton . clng	16.50 14.00 7.892 6). 1.35 1.75 134.00 117.00
citratia, Li., drums, f.o.b., orks	20 82 16 47 29 1/2 35 43 16 16 17 17 18 18	- V	Wheat perm oil, cold-pressed, cold-pressed, cold-pressed white precipitate, USP, powd, 1(dm, 1.0.b. works, 1.0.b. works, 1.0.b. works, 1.0.b. works, whiting (see Calcium carbonate). Wintergreen oil, syn. (see Methyls Wintergreen oil, syn. (see Methyls Wintergreen oil, syn. (see Methyls Leaves, bis. 100 meah, bgs., c.i. works, 325 meah, bgs., c.i. works, high aspect ratio, bgs., works vortastonite, 1.1, 1.0.b., productions.	lb. . gal. . gal. XX-lb. lb. lb. . ton . ton . ton . ton	16.50 14.00 7.892 6). 1.35 1.75 134.00 117.00
citrates, LL, drums, f.c.b., orks	20 82 15 47 291/2 35 43 43 45 571/2 831/2	- 45 .55 V	Wheat germ oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(dms.,1.o.b. works. Whiting (see Calcium carbonate). Whitengreen oil, syn. (see Methyl s Witch hazel bark, bis. leaves, bis. 400 meeh, bgs., c.l. works. 125 mesh, bgs., c.l. works. 140 meeh, bgs., c.l. works. 140 meeh, bgs., c.l. works. 140 meeh, bgs., c.l. works. 141 nespect ratio, bgs., works. Votlastonite, t.l., 1.o.b., produ	lb. . gal. . gal. XX-lb. lb. lb. . ton . ton . ton . ton . ton	16.50 14.00 7.892 6) 1.35 1.75 134.00 117.00 164.00 200.00
citrates, LL, drums, f.c.b., orks	20 82 15 47 29½ 335 43 1 61 45 57 ½ 54 ½	- V	Wheat germ oil, cold-preased, cold-preased, cold-preased white precipitate, USP, powd., 1(dms, f.o.b. works.) Whiting (see Calcium carbonate). Whiting (see Calcium carbonate). Whiting (see Calcium carbonate). White green oil, syn. (see Methyl e Witch hazel bark, bls. leaves, bls. 400 mesh, bgs., c.l. works. 325 mesh, bgs., c.l. works. 326 mesh, bgs., c.l. works. Woffastonite, t.l., f.o.b., produpath grant grant grant. 325 mesh.	Ib. . gal. . gal. XO-Ib. Ib. salicylat Ib. . ton . ton . ton . ton . ton . ton	16.50 14.00 7.892 6). 1.35 1.75 134.00 117.00 164.00 200.00
citrate, LL, drums, f.o.b., orks	20 82 15 47 28 29 35 43 13 45 57 45 57 42 83 42 83 42	- 45 V	Wheat perm oil, cold-pressed, cold-processed White precipitate, USP, powd, 1(dms, 1.o.b. works. Whiting (see Calcium carbonate). Whitegreen oil, syn. (see Methyl s Witch hazel berk, bis. 1eaves, bis. 400 mesh, bgs., c.l. works. 325 mesh, bgs., c.l. works. high aspect ratio, bgs., works Votilastionite, 1.l., 1.o.b., produ- plant, general grade. 325 mesh.	Ib. . gal. . gal. XO-Ib. Ib. salicylat Ib. . ton . ton . ton . ton . ton . ton	16.50 14.00 7.892 8). 1.35 1.75 134.00 117.00 164.00 200.00 140.00
citratis, Li., drums, f.o.b., orks	20 82 15 47 29 35 43 13 14 45 57 72 83 72 83 72	- 45 y .55 y	Wheat germ oil, cold-pressed, cold-processed White precipitate, USP, powd., 1(dms.,1.o.b. works. Whiting (see Calcium carbonate). 400 mesh, bls. 325 mesh, 400 mesh. 1250 mesh. 1250 mesh.	lb gal gal gal od lb lb lb lb lb lo lo ton . ton . ton . ton . ton . ton	16.50 14.00 7.892 6). 1.35 1.75 134.00 117.00 164.00 200.00
citrate, LL, drums, f.o.b., orks, LL, drums, f.o.b., orks, LL, drums, f.o.b., orks, LL, drums, f.o.b., do.b., do.b	20 82 15 47 29 35 43 13 14 45 57 72 83 72 83 72	- V V V V V V V V V V V V V V V V - V V V - V V V V - V V V V - V V V V - V V V V - V V V V V - V	Wheat germ oil, cold-preased, cold-processed white precipitate, USP, powd., 10 dms, 1,0.b. works. Whiting (see Calcium carbonate). Whiting (see Calcium carbonate). Whiting (see Calcium carbonate). Whiting (see Calcium carbonate). White green oil, syn. (see Methyl structure) which hazel bark, bis. 400 mesh, bgs., c.l. works. 325 mesh, bgs., c.l. works. 325 mesh, bgs., c.l. works. 325 mesh. 400 mesh. 1250 mesh. 1250 mesh.	lb gal gal gal od lb lb lb lb lb lon . ton	16.50 14.00 7.892 8). 1.35 1.75 134.00 117.00 164.00 200.00 140.00
citrate, LL, drums, f.o.b., orks	20 82 15 47 29 35 43 15 61 45 57 72 83 72 83 73	- V V V V V V V V V V V V V V V V V V - V V V - V V - V V - V V - V V - V V - V V - V V - V V - V V - V V - V V - V V - V V V V - V V V V - V V V V - V V V V V - V V V V V V - V	Wheat perm oil, cold-pressed, cold-processed White precipitate, USP, powd, 1(dms, 1.o.b. works. Whiting (see Calcium carbonate). Whitegreen oil, syn. (see Methyl s Witch hazel berk, bis. 1eaves, bis. 400 mesh, bgs., c.l. works. 325 mesh, bgs., c.l. works. high aspect ratio, bgs., works Votilastionite, 1.l., 1.o.b., produ- plant, general grade. 325 mesh.	lb gal gal gal od lb lb lb lb lb lon . ton	16.50 14.00 7.892 8). 1.35 1.75 134.00 117.00 164.00 200.00 140.00

_	Colcharance d b. tooks, Ma.	10.00	17.60	
	Cold-processed gal. White precipitate, USP, powd., 100-ib.	14.00	-	
_	The production of the producti			
		7.892	14.04	
1.45	TYPHUIU (888 LINCH III) CARLOONIAL		11.24	
.55	T YVITIUM CITERON AND SOUR SECOND AND A SOURCE OF THE PARTY OF THE PAR			
-	Wintergreen oil, syn. (see Methyl salicyk	110).		
		1.35	_	
	100400 NO	1.75	_	
-	1 700 (((00)), (20)4(2) ((00)46 + 10-	134.00	-	
		107.00	-	
-		117.00	-	
	Wotlastonite + 1 4 E. Works ton	164.00	_	
	Wotlastonite, t.l., f.o.b., producing			
-		200.00	_	
		140.00	444.00	
.57		190.00	141.00	
-	1250 mesh ton	180.00	-	
	Wool grease, USP (see Lanolin).	500.00	_	
-	Wormwood oil (see Chenopodium oil, NF	3		
*	Wormwood oil, Cnsb.	31.00		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01.00		
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oot, Belgian, bgs.

Vanadium oxytrichloride 3,000 ib.
cyls, works... b.
Vanadium pentoxide, isch., gran., per ib.
otv₂0₆, 550-ib. dns., works... b.
fused or flake, per ib. V₂0₆, 550-

Java, tins... Vanilin, USP, dms., f.o.b works

etivar oil, Bourbon, dms.....

Victoria blue toners, molybdated, PMA

dms. bb.
tungstated, PTA, dms. bb.
Vinylacetate monomer, tanks, divd.lb.
Vinyl chloride monomer, polymer
grade, tanks, f.o.b. works. b
Vinyl ether, USP, anestheale, 75-cc.
bots, hospitals. bots.
2-Vinylaydine I draw works

ha, cobalamin concentrate NF ith mannitol. 1,000 mcg, per

Vitamin B₁₂ cryst., non-sterile, USP (cyanocobalamin), vials, 50-

5.40

4.10

3.35 .274 37.00 27.00 6.25 4.75 .64

33.00

6.00

30.00

5.00

Wormwood oil, cnsb.	31.00	_
V		
Y		
Yenthee com 4		
Xanthen gum, food 300-lb. dms., f.c.b. works, b.	5.65	6.20

urmeric, Alleppey over 6%ib. urpentine, crude sulfate tanks, f.o.b. Southeast worksgat.	.67 .90	- 1.00	Xylene, petroleum, Ind. or nitration, tanka Altante, La., f.o.b gal.	.76%
J			Atlanta, Ga., divd	.769 .769 .769 .769 .769 .769 .769
tramarine blue pigments, 550-2,000 lblots, works	1.30 2.20 .13½ .13½ 2.70 200.00 75.00	.15½ .14¾ 	New Jersey Metro, divd. gal. Xyiene, petroleum, Ind. or nitration, tanka Philadelphia, Pa., divd. gal. Providence, R.I., divd. gal. South Bend, Ind., divd. gal. M-Xylene, high purity, tanks, f.o.b. Texas City, Tex	.76½ .76½ 1.36 1.42 1.37 .36 .13¼ .19
nals, granularton s-Ursi leaves, blslb.	100.00 .22	Ξ.	Xylidines, mixed, o-m-p., dms., c.l., t.l., I.o.b. works	1.50 1.00
			V	

'ara vara, 25-lb. cns., Yeast, pure brewer,s debittered, NF, Sac-charomyces, t.l., f.o.b works . ib. Yerba, santa leaves, bis. ib. 2.81 2.40 26.50 36.60 25.00 25.00 22.00 31.75 4.94 ang-ylang oil, extra grade grade 1 grade 2 grade 3 3.65

	4		
	Tale has a good a	_	
	Zein, bgs., 2,000-ib. lots	7.50	9.30
	Zinc acetate, NF, drns. b. tech., dlhydrate, bgs , t.l., works. lb. Zinc borate, tech., 43% Zinc, 37%	1.00 1.80	1.78
	1.o.b. works		-
	dms. 20,000 lbs. t.l. f.o.b. wks. fb. Zinc chloride, USP, gran., dms kilo		-
	tanks, f.o.b. Cleveland.		-
12	Ohlo 100 lbs.	20.20 20.20	-
	Concord, N.C. 100 lbs. Freeport, Tex 100 lbs. Old Bridge, N.J. 100 lbs.	20.20	-
	I on cedical same para cleasifillo	20.20 27.90	-
	Ohlo 100 lbs. Concord, N.C 100 lbs.	27.90	_
	Uid Bridge, N.J 100 lbs.	27.90	-
	70 degree, same basis Cloveland, Ohio 100 bs.	29.70	-
	Ohlo 100 lbs. Concord, NC 100 lbs.	29.70	-
	Old Bridge, NJ 100 lbs. 72 degree, same basis Cleveland,	29.70	-
	Ohio 100 lbs.	33.20	_
	Ohlo 100 lbs. Concord, NC 100 lbs. Old Bridge, NJ 100 lbs.	33.20	
	Zinc chromate, bgs., divd ib.	33.20 1.12	-
	Zinc cyanida, dms., c.l	1.65	2.14
	Zinc cyanide, dms., c.l	50	.67
	f.o.b. piant	.59	.01
	t.c., t. t., f o.b. works lb. 9% Zn., ammonia salt soin., t.c., t. t.	.56	-
	f.o.b. works lb. Zinc fluoborate, liq. conc., dms., t.l.,	.48	-
	works, frt, equald	.68	.50
	Zinc metal, high grade, divd ib. Zinc naphthonate, liq. 8% Zn, dms.,	.47 .95	-
	divd	.34	.36
	fri. alid	.60	.60
	alidib. Zing oxide pigment, American process.	.59	.85
-	lead-free bgs., c.l., frt. ald lb. Zinc oxide pigmoni, French process	.57	.69
	regular, bos., c.l., frt. alid., ib.	.55	.58\2
	Zinc phenoisulfonate, purif., gran., 250-lb, dms., t.i., frt. alid lb. Zinc pyridinethione, 48% dispersion,	1.52	-
	dms., (.o.b. works lb.	8.50 14.50	8.80
	Industrial grade	.45	-
	Zinc silicofluoride, dms., c.l., t.l.,	.17	.2850
	workslb. Zinc stearate, USP, bulk, t.llb. Zinc sulfate, gran., monohydrate, in-	.92	1.06
	Zinc suifate, gran., monohydrate, in- dust. grade 36% Zn., bgs., c.l., worke. 100 bs.	30.00	32.00
	agricultural grade powd., bulk.	26.50	-
	Zinc-ammonium chioride, bgs., c.j.,	.42	-
	works lb. Zinc undecylenate, dms., works lb. Zinc-formaldehyde sulfoxylate, basic	4.67	4.70
	1 200-fb. dms frt. alfd lb.	1,05 185.00	177.00
	Zircon gran. bgs., bulk c.l., works. ton Zircon milled bgs., 200 and 325 mesh,	225.00	
	c.l., works	07	· - .:.
	c.l., 30,000 lbs. mln., works lb. 22% ZrO ₂ , same basis lb.	.78	-
	Zirconium hydride, powd., electronic crede.dmsworks	.31	76
	Zirconium oxide, powd., comi., cms.,	4.25	30 - 70
	2,000 lbs. min lb. electronic, same basis lb. insutating, stabilized, 325°F same	7.25	o 65

2,000 lbs. min. lb.
electronic, same basis ... lb.
insulating, stebilized, 325°F same
basis ... lb.
insulating, unstabilized, 325°F same
basis ... lb.
dense, stabilized, 30F, same basis ... lb.
Zirconium otychloride, iiq. cins. 5-ton
lots, works ... lb.

Burgara Barangara

US imports of chemicals and related materials are reported in this section by CPI material. Listings include consignee where possible, container, net weight. name of vessel (in parenthesis), port of origin and date of shipment's arrival in New York or the Port of Newark.

US chemical imports/exports are tabulated monthly in the market reports.

ABS RESIN Marubeni America 16 pit (36685 ibs) (Ever Goldan) Kaonsiung, 11/14. ACETAMINOPHEN USP CRYSTAL Sterling Organics 242 (Santa Catarina) Italai, 11/17.

dms(42414 lbs) (Atlantic Concert) Liverpool, 11/11. ACETOACT 2 5 DIMETHOXY 4 CLANILI Lonza 60 bgs (Satta Coming Ingel, 1777). BROMAMINE ACID Silvey Shpg 48 dms (8032 lbs) (Ever Laurel) Hong Kong, 11/19 BROMAMINIC ACID SODIUM SALT MW40 Berno Shpg (2844 lbs) (Koin Express) Bremerhaven, 11/18. ICETOPHENONE Omnitrans 228 dms (100530 lbs) CETOPHENONE Omnitrans 226 dris (100550 lbs) (Vishva Pallav) Laghorn, 11/24. CETYL CHLORIDE Pan American Container 74 pkg

(38707 lbs) (Atlantic Concert) Liverpool, 11/11.
ACID ORANGE Golf & Page 40 dms (5071 lbs) (Alva Maerak) Dubal, 11/19. ACRYLIC E & T Safea 21 ca (37952 lbs) (Ming Universe) C-D -

Keelung, 11/22. ACRYLIC AND METHACRYLIC ACID Mobil 80 dms (40036 lbs) (Ming Universe) Yokohama, 11/22. ACRYLIC MONOMERS METHACRYLATES Chorl Amer-

kary (C MONOMENS ME TAKCHT LES CHOIT AMERICA ka 80 dms (35626 lbs) (Ming Universe) Kobe, 11/22. ACTIVATED CARBON Degussa 800 bgs (26984 lbs) (Koln Express) Bremerhaven, 11/18. AQAR AGAR Carrageenan Products Intl 323 dms (34504 ibs) (Colombo) Cadiz, 11/24. LGINATE PROTANAL Protan Scotla Marina 496 dms

(22436 lbs) (Atlantic Service) Bremerhaven, 11/12. ALLOPURINOL VALPORIC ACID Alltransport 83 pkg (11003 lbe) (Atlantic Service) LeHavre, 11/12. LISPICE A A Sayla 180 bgs (20111 lbs) (San Pedro) Sto Tomas, 11/21 ALUMINA CALCINED GAMMA SO Roder 334 dms

(24888 lbs) (Sea Land Adventur) Algectras, 11/20. ALUMINUM FLAKE BLUE 25 dms (2762 lbs) (Koln Express) Hamburg, 11/18. ALUMINUM OXIDE Asahi Chemical Ind America 6 dms

(189 lbs) (Zim Tokyo) Yokohama, 11/26. Las 50 bgs (5209 lbs) (Koin Express) Hamburg, 11/18. NPSIntl 12 plt (38978 lbs) (Zim Tokyo) Osaka, 11/26. Degussa 2 bks (86332 lbs) (Alva Maersk) Marseille, NUMINUM PASTE M D Both Ind 53 dms (0 lbs) (Sea Land

Voyager) Bremerhaven, 11/26. Revell Chemicals 360 dnts (43018 lbs) (Alva Møersk) Dubal, 11/19. ALUMINUM POTASSIUM SULFATE A M Sea & Air Ser-

vice 720 bgs (40834 lbs) (Ever Going) Foliastowe MINOBENZOTRIAZOL Mobay Chemical 4 dms (1071/bs)

(Strathconon) Rollerdem. 11/25.

AMMONIUM BIFLUORIDE Kali Chemis 792 bgs (41129
lbs) (Atlantic Service) Bremerhaven, 11/12.

AMMONIUM DICHROMATE 240 dms (95843 lbs) (Sea Land Developer) Bremerhaven, 11/23.

AMMONIUM PERSULFATE Mitaubishi Inti 1920 bgs
(107091 lbs) (Ever Laurel) Tokyo, 11/19.

AMMONIUM THIOCYANATE Akzo Chemie 540 bgs (36685 lbs) (Heide) Hamburg, 11/19. AMPICILLIN TRIHYDRATE F C Gerlach 109 kgs (8915

ibs) (Atlantic Concert) Liverpool, 11/11.
AMYL BUTYRATE 5 dms (2149 lbs) (Dart Americana) Felixstowe, 11/20. ANTIMONY TRIOXIDE Minmetals 34 pkg (77955 lbs) (Regina Maersk) Hong Kong, 11/16.

ARABIC GUM Freetrade Container Lines 843 bgs (110849 lbs) (Cellifornia Ster) Antwerp, 11/22.

Kuehne & Nagel 40 bgs (2249 lbs) (Helde) Hamburg.

BALSAM TOLU Accelerated Shpg 42 dms (5146 lbs) (Atlantic Concert) Liverpool, 11/11.

BARIUM CARBONATE Maarten Intermodel Expeditor
700 bgs (39198 lbs) (Regina Maersk) Hong Kong,

BARIUM CHLORIDE Cometate 4080 bgs (228668 lbs) (Regina Maerak) Kobe, 11/16. BARIUM HYDROXIDE MONOHYDRATE Ore & Chamical 700 bgs (39700 lbs) (Stefan Starzynski) Rotterdam

BARIUM MONOHYDRATE & EMPTY BAS Ore & Chemi-cal 707 bgs (39700 lbs) (Stefan Sterzynski) Rotter-dam, 11/26. BEESWAX Mohawk Customs Service 190 bgs (22462

Ibs) (Strathconon) LeHavre, 11/25. BENZENE SULPHONIC ACID 221 dms (27262 lbs) (Strathconon) Bremerhaven, 11/25. SENZOYL CHLORIDE Stoll Tank Containers 1 Ink (41491 tis) (Ever Going) Felixstowe, 11/23. BENZYL ALCOHOL Monson Chemicals 90 dms (43651

lbs) (Colombo) Barcelona, 11/24. CDF Chimia 1 bks (41050 lbs) (Stefan Starzynski) LaHavre, 11/26. BENZYL CYANIDE Inter Maritime Fwdg 1 con (52712 lbs) (Ever Guard) Antwerp, 11/17. arborough Chemicals 2 tnk (84568 lbs) (Attentio Con-

Cert) Liverpool, 11/11. BENZYL SALICYLATE 17 dms (9145 lbs) (Britta Thien) BITTER ORANGE OIL Berje Inti 1 trik (400 lbs) (Sen Pe Heina, 11/21. BLACK PEPPER 12 dms (0 Rbs) (Vishva Pallav) Cochin,

11/24. BLACK PEPPER OLEORESIN Meer 50 pkg (2425 lbe) (Vishva Pallsv) Cochin, 11/24. BLANC FIXE POWDER Ore & Chemical 21 pkg (41530

bis) (Atlantic Concert) Antwerp, 11/11.

700 bgs (39700 bbs) (Ever Going) Antwerp, 11/123.

700 bgs (39700 bbs) (Stefan Sterzynski) Rotterdam, 11/26,

Ora & Chemical 546 bgs (30848 ibs) (Stefan Starzynski)

Rotterdam, 11/28,

BLUE POPPY SEED Gel Spice 880 bgs (440022 ibs) (Oaliomia 8tar) Rotterdam, 11/22,

Transit Tridg 880 bgs (44002 ibs) (Stefan Starzynski)

Rotterdam, 11/28,

BORIC ACID Entdern Americas 80 dms (28748 ibs)

Rotterdam, 11/28. BORIC ACID Enichem Americas 80 dms (28748 lbs) (Colombo) Leghorn, 11/24.

BRAZILIAN CLOVES Marris J Golombeck 200 bg (22266 lbs) (Sente Ceterina) Sentos, 11/17. BRAZILIAN CORNMINT OIL A J Fritz 30 dms (13219 lbs

114 dms (17341 lbs) (Ming Universe) Kobe, 11/22. BUTANEDIOL 1 bks (868884 lbs) (Stolt Avenir) Antwerp

11/23. BUTYLENE GLYCOL Brenntag Interchem 1 con (42990 lbs) (California Star, Breman, 11/22.

C ACID Alba Fwdg 480 bgs (29535 lbs) (Ming Universe Yokohama, 11/22. CADMIUM LITHOPONE PIGMENT Leyden Customs Ex-

pediters 40 dms (8554 lbs) (Ming Universe) Yoko CALCIUM ICD Group 2397 dms (2082123 lbs) (Novovolynsk) Leningrad. 11/20 CALCIUM CASEINATE De Zaan 800 bgs (44771 lbs)

(Ever Guard) Rotterdam, 11/17. De Zaan 1200 bgs (40596 lbs) (Ever Guard) Rotterdar

11/17.
600 bgs (20364 lbs) (Ever Going) Rotterdam, 11/23.
CALCIUM FLUORIDE F W Myers 64 dms (16931 lbs)
(Regina Maersk) Kobe, 11/16.
CALCIUM HYPOCHLORITE ICD Group 333 dms (36707 Ibs) (Zim Tokyo) Yokohama, 11/26. CALCIUM LACTATE PENTAHYDRATE 430 bgs (21521 lbs) (Ming Universe) Kobe, 11/22. CAPROIC ACID Ecca Freight Systems 20 dms (8907 lbs) (Dart Atlantica) Antwerp, 11/28. CAPROLACTAM 1 bks (3319438 lbs) (Stoll Avenir

Antwerp, 11/23. CARAWAY Oll. Caravan Products 10 dms (1224 lbs) (Dart Americana) Antwerp. 11/20. CARBON GRAPHITE Gunze New York 34 pkg (29793 lbs) (Regina Maersk) Kobe, 11/16. CARRAGEENAN Meer 60 dms (7011 lbs) (Colombo)

Cadiz, 11/24. CASEIN Adamba imports Intl 400 bgs (44092 lbs) (Stelan CASEIN Actamba imports intil 400 dgs (44922 dg) (36481)
Starzynski) Bremerhaven, 11/26.
CASEINATE Omega Warehousing 720 bgs (37171 lbs)
(Sea Land Voyager) Rotterdam, 11/26
CASSIA Daarnhouwer 299 bgs (33069 lbs) (Saudi Diriyah)

Singapore, 11/28.
DMT 213 bgs (33069 lbs) (Saudi Dinyah) Singapore

11/26. CASSIA OIL Van De Vries Trog 224 cs (26852 lbs) (Held Rotterdam, 11/19. CASSIA VERA Daernhouwer 513 bgs (68138 lbs) (Saud Dirtyah) Singapore, 11/26.
CAUSTIC SODA 1 bks (13550874 lbs) (Stolt Avenir)

Antwrep, 11/23.
CELLULOSE POWDER Militzer & Muench 374 bgs (25064 lbs) (Strathconon) Rotterdam, 11/25.
CETYL ALCOHOL FLAKES Glenery Warehouse 982 bgs
(43949 lbs) (Strathconon) Rotterdam, 11/25.
CHINA CLAY Hammil & Gillespie 1800 bgs (89890 lbs)

CHINA CLAY Harrima & Gineshie 1600 dg (1600 m.)

(Ever Guard) Felixatowe, 11/17.

CHLORAL HYDRATE Jagro Custom House Brokers 50

pri (3538 lbs) (Koln Express) Hamburg, 11/18.

CHLORHEXIDINE DIGLUOCONATE Scanfreight 13 dms

(5985 lbs) (Atlantic Concert) Gothenburg, 11/11 CHLORINE DRY BLEACH ISOCYANURICS Olin 118 dms (34079 lbs) (Catifornia Star) Felixstowe, 11/22. 118 kgs (34079 lbs) (Catifornia Star) Felixstowe, 11/22. CHLORTETRACYCLINE Pan American Container 120 dms (514 bs) (Colombo) Genos, 11/24. CHOLESTEROL TECHNICAL Amerchol 20 dms (2468

ibe) (Ever Gather) Osaka, 11/25. CRUDE BLUE James E Fox 1800 bgs (81694 lbs) (Ming CHUDE BILLOS James e Pok Tob age Chuller Billos Jokohams, 11/22.

CUPROUS THIOCYANATE Pluess Stauffer 600 bgs (34943 lbs) (Ever Going) Felixstows, 11/23.

CYANURIC CHLORIDE Degussa 180 dms (43254 lbs)

(Koln Express) Antwerp, 11/18. 180 dms (43254 lbs) (Dari Allentica) Antwerp, 11/26. Lonza 320 dms (40071 lbs) (Koln Express) Bremer haven, 11/18. 320 dms (40071 lbs) (Sea Land Developer) Rotterdam

11/23.
DEXTROSE Intl Customs Service 420 bgs (42307 lbs)
(Sea Land Voyager) Rotterdam, 11/28.
DEXTROSE MONOHYDRATE Ce De Candy 3605 bgs (40159 ibs) (Helde) Rollerdam, 11/19.
DIACETONE ALCOHOL 80 dms (37170 ibs) (Ever Summit) Fos. 11/19.
DIALKYL PENTASULFIDE Mobay Chemical 35 pkg

(15432 lbs) (Ever Going) Antwerp, 11/23.
DIAMINO TRIMETHYL BZ SULFONIC AC Berno Shpg 30 dms (2315 lbs) (Ming Universe) Kobe, 11/22. DIAMINOANISOLE Mobay Chemical 20 dms (9744 lbs)

(Brathconon) Rotterdam, 11/2b.

DIANISIDINE HYDROCHLORIDE Nagase America 190
dms (31464 lbs) (Ming Universi) Kobe, 11/22.

DIBROMO PHENYL GLYCIOYL ETHER Nichimen 1 dms
DIBROMO PHENYL GLYCIOYL ETHER Nichimen 1 dms DIBROMO PHENYL GLYGIDYL E I PIER Nichmen 1 chila (489 lbs) (Regina Maerek) Kobs, 11/16.
DICHLOROANILINE Mobey Chemical 18 dms (5476 lbs) (Strathconon) Rotterdam, 11/25.
DICHLORODIFLUOROMETHANE Kall Chemie 2 lnk (78925 lbs) (Colombo) Barcelons, 11/24.
DICYANDIAMIDE 792 bgs (40124 lbs) (Ever Going) Hamburg 11/23.

DICYANDIAMIDE 792 pgs (40124 ibs) (Stafan Starzynski)
Scan Shpg 420 bgs (43059 ibs) (Stafan Starzynski)
Bremerhaven, 11/26.
30 pit (43059 ibs) (Heidel Bremerhaven, 11/19.
DIETHYL PHTHALATE PERMUME Rhone Poulenc 72 dms (40653 ibs) (Strathconon) LeHavré, 11/26.
DIETHYLENETRIAMINE Tratpak 1. con (42549 ibs) (Callfornia Star) Rotterdam, 11/22.

1 trik (42681 ibs) (Britta Thisn) Rotterdam, 11/26.

The same in the Kara

ibe) (Stefan Starzynski) Bremerhaven, 11/26. DIMETHYL SULFOXIDE DMSO 3 con (128969 ibs) (Ever Summit) Fos. 11/19. DIMETHYLETHYLAMINE 124 dms (42509 lbs) (Ever

Summit) Fos, 11/19.
DIPHENYL METHANE DIISOCYANATE Netties 60 dms

NMETHYL HYDROZYLATE 1 bks (3306351 lbs) (Stoft

Avenir) Rotterdam, 11/23. DIMETHYL MALONATE Dynamit Nobel 152 bri (73052

(28439 lbs) (California Star) LeHavre, 11/22. THIOBISMORPHOLINE Mobay Chemical 80 ptgs (2200 ibs) (Ever Going) Antwerp, 11/23.

DODECYLBENZENE 1 bks (1384178 lbs) (Stolt Avenir) Rotterdam, 11/23.

EPOXY PHENOLIC NOVOLAC RESIN Ciba Geigy 72 dms (39207 lbs) (Strathconon) Felixstowe, 11/25. EPOXY RESIN Ciba Geigy 531 ctn (31140 lbs) (Regina Maersk) Kobe, 11/18.

H & C Ind 750 bgs (37849 lbs) (Ever Laurel) Keelung, THANOL Whitebread North America 4 trik (151247 lbs)

(Kołn Express) Greenock, 11/18. ETHYL ALCOHOL H & M General Trucking 43 ctn (1803 lba) (Atlantic Concert) Liverpool, 11/11. ETHYL CYANOACETATE Bamo Shpg 80 dms (39883 lbs

(Ming Universe) Kobe, 11/22.
ETHYL SODIUM OXALACETATE American Cyanamid 234 dms (54683 ibs) (Ever Guerd) LeHavre, 11/17.
ETHYLENE CARBONATE Sanyo 65 dms (39551 lbs) (Ever Golden) Osaka, 11/14.
ETHYLENE GLYCOL MONOBUTYL ETHER T Vanderbilk 4 mix (582 bis) (Britts Thien) Rottsrdam, 11/26.
FAST SCARLET G BASE Amsax 200 dms (13228 lbs) (Regins Maersk) Kobs, 11/16.
FASTOGEN BLUE KC ETC Alba Fwdg 1620 bgs (86906 lbs) (Zim Tokyo) Yokohams, 11/26.
FERRIC CHLORIDE HEXAHYDRATE Votainer Consolitations (1888)

dation Servi 30 dms (6918 lbs) (Koln Express) Rot-

terdem, 11/18.
FERROUS SULFATE George Uhe 363 bgs (40333 lbs)
(Ever Guard) Hamburg, 11/17.
185 mix (45558 lbs) (Ever Guard) Hamburg, 11/17. ISH OIL Arista Ind 160 dms (73369 lbs) (Britta Thien)

Rollerdam, 11/28.

Pharmacaps 50 dms (22928 lbs) (Atlantic Concert) Gothenburg, 11/11. Transcontinental Transport S 40 dms (17901 lbs0 (At-

lantic Concert) Gothenburg, 11/11 FLUOROCARBON F 112 50 dms (36266 lbs) (Ming Unverse) Kobe, 11/22.

GELATINE Corbett Intl 44 dms (10221 lbs) (Independ ence) Mareeille, 11/18. O C Lugo 16 pkg (4769 lbs) (Koln Express) Greenock.

l 1/18. GERANIOL 36 dins (15695 ibs) (Brilla Thian) Rotterdam, 3ERANYL ACETATE 2 dms (899 lbs) (Britia Thion) Rotlerdam, 11/26 SINGER CHUNKS Something Bettor 20 ctn (0 lbs) (Ever

Golden) Singapore. 1 1/14. GLYCERIN Life Savers 1 tisk (43343 lbs) (See Land Voyager) Rotterdam, 11/26 Croda Chemical 3 con (131571 lbs) (California Star) Life Savers 2 tok (89022 lbs) (Sea Land Developer

Rotlerdam, 11/23 1 bks (658634 lbs) (Stoft Avenir) Rottordani, 11/23 IRAPHITE Asbury Graphite Mills 900 bgs (122108 lbs) (Vishva Pallav) Colombo. 11/24 Lonza 1440 bgs (82630 lbs) (Sea Land Developer) Ro

terdem, 11/23. GUANIDINE HYDROCHLORIDE 990 bgs (60556 lbs) (Ever Going) Hamburg, 11/23 GUAR GUM HI Tek Polymers 720 bgs (40000 lbs) (Vishva

Pallav) Algeciras, 11/24.
Tic Gums 1800 bgs (81200 lbs) (Vishva Pallav) Alge-

Tic Gums 1800 bgs (61200 lbs) (Vishva Pallav)
Ciras, 11/24.
Hi Tak Polymers 720 bgs (40000 lbs) (Vishva Pallav)
Algeciras, 11/24.
GUM COPAL Central Indonesian Trdg 112 bgs (17919 lbs)
(Saudi Riyadh) Singapore, 11/25.
GUM DAMAR BATU S Winterbourne 392 bgs (62718 lbs)

(Saudi Riyadh) Singapore, 11/25. GUM ROSIN PDM 440 bgs (49604 lbs) (Koin Express Pine Derivatives Marketing 630 bgs (34722 lbs) (Dart Allantica) Antwerp, 11/26.

HENNA POWDER Freeport Trade Mart 3 cs (414 lbs) (Sea Land Developer) Rotterdam, 11/23. HIDE GLUE Goff & Page 400 bgs (40124 lbs) (Santi

Catarina) Santos. 11/17. Taub & Carmel 350 bgs (39842 ibs) (Santa Catarina) Sentos, 11/17. Sentos, 11/17. IUNGARIAN PAPRIKA Inti Brokers 312 bgs (34804 lbs) (Stelan Starzynski) Bremerhaven, 11/26. HYDROFLUORIC ACID Leschado 1 (nk (33951 lbs)

(Strathconon) Bremerhaven, 11/26. lew Wave Transport 72 dms (38810 lbs) (Zim Tokyo) Osake, 11/26. HYDROGEN PEROXIDE Degussa 152 dms (79586 lbs) (Koin Express) Antwerp, 11/18.
HYDROQUINONE Rhone Poulenc 200 dms (23651 lbs)

(Independence) Marseille, 11/18. Mileul 720 bgs (41023 bs) (Ming Universe) Kobe, 11/

Mitsul 178 dms (42970 lbs) (Ming Universe) Kobs, 11/ 22.
HYDROXYL POLYESTER POLYETHER Mobay Chemics

2 pkg (948 ibs) (Ever Going) Antwerp, 11/23. 1YDROXYL POLYETHER POLYOL BLEND Mobay Chemicat 1 pkg (474 lbs) (Ever Going) Aniworp. 11/23. HYDROXYLAMINE SULFATE Virginia Chemicals 720 bgs (40992 bbs) (Galifornia Star) Rotlerdam. /11.22 IBUPROFEN USP Mitaubishi Intl 97 dms (11548 lbs)

IBUPROFEN USP Mitabilishi Intl 97 dms (11646 Ips)
(Regins Meersk) Tokyo, 11/16.
Intermar Steamskip 81 dms (9572ba) (Strathconon)
Leitavre, 11/25.
IMINODIACETIC ACID Mayoro Ind 84 dms (12037 iba)
(Ming Universa) Kobe, 11/22
(Ming Universa) Kobe, 11/22
(INSULIN E R Squibb & Sons 20 pti (26350 ibs) (Sea Land
Voyager) Bremerhaven, 11/26.
(IRON BLUE PIGMENT Dainichiselto Color & Chemip 2000
(IRON BLUE PIGMENT Dainichiselto Color & Chemip 2000
(IRON BLUE PIGMENT Dainichiselto Color & Chemip 2000
(IRON OXIDE Orgo Thermit, 86 dms (77505 lbs) (Ever
Guard) Antwerp, 11/17.
84 mix (98707 ibs) (Ever Golng) Antwerp, 11/23.
ISOPHORONE 80 dms (37170 ibs) (Independence) Marselle, 11/18.

| SOPHORONE BU this to seller 11/15. |
| BOPHORONE DIAMINE Leschisco 50 can (3042 foe) |
| (Strathconon) Bremsshaven, 11/25. |
| ISOPHORONE DIBOCYANATE Nuodex 400 bgs (18157 bs) (Strathconon) Rotlerdem, 11/25. |

ACID Levden Customs Expeditors 280 ctn (32872 lbs) (Regina Maersk) Hong Kong, 11/16. KARAYA GUM Meer 180 bgs (19962 bs) (Sea Land De-

veloper) Rotterdam, 11/23. L EPHEORINE HCL Ganes Chemical 200 ctn (12787 lbs) (Regina Maersk) Hong Kong, 11/16. LACTIC ACID UCB Freight Service 134 dms (0 lbs) (See

Land Adventur) Algedras, 11/20. LACTOSE Samrak Chemical 288 dms (29903 lbs) (Ever Guerd) Rotterdam, 11/17. LAMPONG BLACK PEPPER Aquatran 200 bgs (27558 ibs) (Saudi Diriyah) Singaporo, 11/25. AVANDIN OIL 76 dms (36958 ibs) (Independence) Fos.

11/18.

106 pkg (24407 lbs) (independence) Fos, 11/18.

LEMON O'L Citrus & Ailed Essences 25 dms (11120 bs)

(Santa Catarina) Buenos Aires, 11/17.

LINEAR LOW DENSITY POLYETHYLENE Astra Packaging 1 con (24251 lbs) (Saudi Riyadh) Damman, 1

Mobil 42 con (1681801 lbs) (Saudi Diriyah) Damman. 11/26. Powerflow Products 1 con (55477 lbs) (Sauck Riyadh)

Damman, 11/26. LIONOL BLUE ORGANIC PIGMENT Toyo ink 400 bgs (21870 lbs) (Ming Universe) Yokohama, 11/22. LOCUST BEAN GUM Tic Gums 880 bgs (44775 lbs) (Inde-

M AMINOBENZOTRIFLUORIDE 47 cak (28184 lbs) (Koin Express) Bremerhaven, 11/18. MACE OIL 18 dms (8025 lbs) (Ever Golden) Singapore.

Ungerer 15 dms (6653 lbs) (Ever Golden) Singspore. 11/14. MAGNESIUM CHLORIDE Potesh Import & Chemical 420 bgs (42939 lbs) (Atlantic Service) Bromerhaven, 11/

MAGNESIUM STEARATES Total Port Clearance 600 bgs (34259 lbs) (California Star) Rotterdam, 1 1/22. MAGNESIUM SULFATE J M Rodgers 1 10 pkg (8083 lbs) (Ming Universe) Yekohama, 11/22. American Chemical 1360 bgs (75856 lits) (Regina

Maerski Kobo, 11/18.
MALEIC ACID INTERMEDIATES Lop Transport 100 dms (11905 lbs) (Koln Express) Bremerhaven, 11/18. MENADIONE SODIUM BISULFITE Omnitrans 200 dms

MENAUIONE SUDIUM BISULFITE Omnittans 200 dms (23810 lbs) (Independence) Valencia, 11/18 MENTHOL Polaroma Mig 60 dms (7138 lbs) (Senta Cararins) Montevideo, 11/17 Berje 40 dms (2557 lbs) (Koin Express) Hamburg, 11/ METHOXYCITRONELLAL 3 ctn (185 lbs) (Britia Thion)

Rotterdam, 11/28. METHYL CELLULOSE Milrans 420 dms (51852 lbs) (Ming Universo) Yokohama, 11/22. METHYL ETHYL KETOXIME Nuodex 76 dms (333421bs)

(Ever Quard) Roltordam, 11/17 Troy Chemical 78 dina (35853 tbs) (Britte Thien) Rolter-dam, 11/26. METHYL HEPTENONE 80 dims (33863 lbs) (Ming Uni-

verse) Yokohama, 11/22 METHYLIONONE 1 dms (441 lbs) (Britis Thion) Rollerdam, 11/26
MINERAL WAX Strohmeyer & Arpo 882 bgs (89740 lbs)
[Ever Guard) Hamburg, 11/17
411 bgs (44870 lbs) (Ever Going) Hamburg, 11/23
MONO TERT BUTYL META CRESOL 1 lnk (41094 lbs)

(California Star) Bramen, 11/22.
MONOCHLORACETIC ACID M 1187 Robeco Chemicals

MONOCHLORACETIC ACID M 187 Robeco Chemicals 135 dms (42621bs) (Ever Going) Rotterdam. 11/23 720 dms (77999 lbs) (Bacol Santos) Santos. 11/17 Nudson Shpg 750 bgs (37668 lbs) (Regina Maersk) Singapore. 11/16 Scantreight 1570 bgs (78705 lbs) (Ming Universe) Kotxi. 11/22 MINTOK WHITE PEPPER Central Indonesian Trdg 180 bgs (33069 lbs) (Saudi Riyach) Singapore. 11/25. 428 bgs (79048 lbs) (Saudi Diriyah) Singapore. 11/26. DMT 608 bgs (11/2911 lbs) (Saudi Diriyah) Singapore. 11/26.

Gel Spice 300 bgs (56438 lbs) (Saudi Diriyeh) Singapore, 11/25. Jantzen & Deeke 180 bgs (33863 lbs) (Saudi Diriyah)

Singapore, 11/26. KHL Flavors 120 bgs (22575 lbs) (Saudi Diriyah) Singa-Ludwig Mueller 360 bgs (67726 lbs) (Saudi Riyadh) Ludying mudaler 300 ogs (01720 los) (38udi Priyadh) Singapore, 11/25. Ludwig Mudler 488 bgs (90338 lbs) (38udi Osiyah) Singapore, 11/26. Monts J Golombeck 180 bgs (33863 lbs) (Saudi Diriyah)

Singapore, 11/26 MUSK XYLOL 270 kgs (31369 lbs) (Helde) Rotterdem, 11/19. NEROL 6 dms (3422 lbs) (Britta Thien) Rotterdam, 11/26. NERYL ACETATE 6 dms (2698 lbs) (Britta Thien) Rotter-

dam, 11/26. NIGROSINE WS POWDER ACID & METAN Penson 65 dms (7344 lbs) (Alva Maersk) Dubal, 11/19. NYLON RESIN General Trailio Systema 512 bgs (28472 be) (Ming Universe) Kobe, 11/22. ORGANIC PEROXIDE Akzo Burt 22 kgs (1325 lbs) (Dart

Americans) Felixatows, 11/20
ORTHO DIANISIDINE DIHYROCHLORIDE Berno Shog
190 dms (31559 bs) (Ming Universe) Kobe, 11/22.

P ACETAMINOBENZENE SULFONYLCHLOR Mitsul 420

P ACETAMINOBENZENE SULFONYLCHLOR Mitsui 420
dms (50927 lbs) (Zim Tokyo) Osaka, 11/26.
P AMINO ACETANILIDE Silvey Shpg 60 bgs (6680 lbs)
(Ever Laure) Hong Kong, 11/19.
P HYDROXYBENZALDEHYDE Chemical Dynamics 10
dms (1235 lbs) (Ming Universe) Kobe, 11/22.
P HYDROXYBENZOIC ACID Kanemateu Gosho 1800
bgs (80963 lbs) (Ming Universe) Kobe, 11/22.
Mobay Chemical 600 bgs (34304 lbs) (Koin Express)
Antwerp, 11/18.
P TERTIARY BUTYL CATECHOL Accelerated Shpg 50
dms (1422 lbs) (Atlantic Concert) Liverpool, 11/11.

P TERTIARY BUTYL CATECHOL Accelerated Ships 50 dms (1422 lbs) (Atlantic Concert) Liverphol, 11/11.

P TOLUENE BULFONYL CHILORIDE Barno Ships 80 dms (31746 lbs) (Alling Universe) Kobs. 11/22.

PAPRIKA Griffith Laboratories 850 bgs (43267 lbs) (Independence) Valentis, 11/18.

850 bgs (43267 lbs) (Colombo) Valencis, 11/24.

PAPRIKA OLEORESIN Savino bel Bone 10 dms (4872 lbs) (Colombo) Valencis, 11/24.

PARA ACETAMINOSENZENE SULFONYL C Mittul 420 dms (50926 lbs) (Wing Universe) Kobs. 11/22.

PARA AMINO BENZAMIDE Layden Customs Expediture 100 dms (12125 lbs) (Ming Universe) Kobs. 11/22.

PARA CRESIDINE FLAKE PMC Specialles 160 dms (47289 lbs) (Ming Universe) Kobs. 11/22.

PARA NITROANILINE Savey Ships 278 dms (34834 lbs) Continued on Pape 40.

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90, 70, 60, 50, 30, cu. ft. PK SS & G/L dbi cone 70 cu. ft. KS Titanium dbl. cone 40, & 15 cu.ft. Stokes, SS rotary

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Niagara Falls/New York Area 700,000 Sq. Ft. Buildings...50 acres of land 750,000 Sq. Ft. Buildings...35 acres of land Plants manufactured Carbon Electrodes Equipment Highlights:

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(3) 290 cu. ft. 316 SS rotary vac dryer systems 10'x 14' Eimco rotary vac filter (2) Niagara 36 H 190 filters SS NASH H9 vac pump w/fuller V 300 booster Reactors: (4) 3000 gal. 316 SS 60/30 HP agit w/colls 100 psi (1) 3000 gal. 316 SS 30 HP, 6TW, 300psi colls

(1) 3000 gal. 316 SS 30 HP, 6TW, 300psi colls (2) 2000 gal. 316 L SS, 75/200 psi jkt Tanks: 15000 gal. 316 L SS agit. 5500, gal. (3) 3000, 2200 gal. Monel vertical 4000 gal. G/L Pfaudler Chemstor 30 psi SS Heat Exchangers from 100 to 500 sq. ft. plus many misc. items.

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2,000 GAL. RA SERIES, 100/90 TW, REGLASSED
1,000 GAL. RA SERIES, 100/90 TW, REGLASSED
1,000 GAL. RA SERIES, 100/90 TW, REGLASSED
1,000 GAL. E SERIES 25/90 (4)
750 GAL. 25/90 TW, (2)
500 GAL. RA SERIES, 100/90, TW
400 GAL. E, SERIES, 25/90, TW
200 GAL. E, SERIES, 25/90, TW

200 GAL. E. SERIES, 25/90 REGLASSED, TW 100 GAL. E. SERIES, 25/90, TW

OVER 100 GLASS LINED REACTORS IN STOCK

GLASS LINED TANKS FROM 5-22,000 GALLONS
TRAILER LOADS OF GLASS LINED PARTS AVAILABLE

 LOU FALCONE-OUR G/L SPECIALIST WITH 21 YRS.
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20,000 GAL. 304SS, 40 & FV 9,000 GAL. 304 SS, 50/5 PSI 8,500 GAL. INCONEL, 40/60 PSI AGIT. ,000 GAL, 30488, 100/15 PSI 4,200 GAL. 316 ELC, 50FV/50 PSI 3,000 GAL. 316 ELC, 75 FV/180 PSI 2,800 GAL. 304LSS, 25FV/100 PS! 2,500 GAL. 316 SS 1,000/100PSI (2) 1,300 GAL, 316SS, 150FV/125 PSI 1,000 GAL. 316ELC 100FV/90 PSI 800 GAL. 316SS, 140FV/50 PSI (3) 750 GAL. 316 ELC, 180FV/140 PSI 500 GAL. INCONEL, 50 FV/50 PSI 400 GAL. HAST C., 210 FV/160 PSI

TO THE PROPERTY OF THE PROPERT

48"X24 TOLHURST SS "BATCHMATIC" CENTRIFUGE (8) COMPLETE

18" DIA. SS, BP TERMEER CENTRIFUGE 60"X40" JEFFREY SS FLUID BED DRYER (2) 60"X20" JEFFREY SS FLUID BED DRYER 6'6X40' FULLER CS ROTARY DRYER, 50 HP 6'6X32' CS ROTARY DRYER STREGIS 3-STATION BAGGER MDL. 18-VC-3 54" DIA. DUCON 304SS SCRUBBER TYPE L

3-95 CU. FT. DAY SANITARY SS RIBBON BLENDERS. 15 HP

1-43 CU. FT. DAY SANITARY SS RIBBON BLENDER 1-8'X12' SS, K-S PRECOAT ROT VAC FILTER
1-1'X3' K-S PRECOAT ROTARY VACUUM FILTER... WITH ALL ACCESSORIES

1-7' DIA. BOWEN SPRAY DRYER... COMPLETE WITH ALL ACCESSORIES

> THIS IS A PARTIAL LISTING MANY MORE ITEMS AVAILABLE

101500 gal. 4'x16' Horiz. (1) 6000 gal. 10'x10' Vert., 5 HP agit. (1) 12000 gal. 10'x24' Horiz. (1) 12500 gal. 12'x13'6" Vert., 5 HP agit. (2) 13000 gal. 12'x14' Vert. (12) 14000 gal. 12'x27' Vert. (4)

一个分词开展员 抗性 的 Machina badasa (1911-yanang) ्रवाम् विज्ञेषाः सम्पर्कतः विवस्ताः । एकः वानवः , स्वित्रामानः ।

CAPP, before an entire of the entire landsoft washing.

But the capped and the control of the capped and the ca MOST CAME THAT STREET WAS TAKEN

(89) Glass lined & SS Reactor systems complete with condenser, receivers and control panels. from 50 gal. to 4000 gai.

(30) Filter Presses polypro & SS from 18" to 56" plate/ frame & recessed plates.

(25) Vacuum dryer systems complete with condensers, vacuum pumps and receivers. Double Cone: glass & \$\$. Rotary Vacuum Dryers 316 SS Vacuum Shelf Dryers SS and Heresite

lined. (18) Centrifuges 316 SS automatic basket centrifuges complete with controls and nitrogen purge Scrubber systems/Vacuum filter systems/Glass lined and SS tank farms.

MUCH MORE!!! 30,000 Gal. 1974 Propane Tank 250 10,000 Gal. 347 **SS** Tanks (3)

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AL ITEMS OR COMPLETE CALL OUR OFFICE TODAY. TOP DOLLARS PAID. NO DEAL TOO BIG OR TOO SMALL.

DRYERS

Drum Dryers/Flakers (1) 24" dla. x 36" Buflovac SS dble. drum

dryer (2) 32" dis.x 108" Blaw Knox Ci dble. drum dryer 1) 32"dle. x 17'6" Sandvik SS belt flaker 1) 36"dle.x 10' Buflovak Cl dble. drum dryer 3) 42"dle.x120"Blaw Knox Cl dble. drum

dryer 48"dia.x 28" drum flaker, chrome plated drum 48"dia.x 40" Ci flaker, mfg. by Buffalo

Foundary
(1) -48"dla.x 40 drum flaker, nickel plated drum, mfg. Blaw-Knox

Fluid Bed
(1) 60 kg. Aeromatic, Batch, 6'x9', 56,000
(1) 100 kg. Aeromatic Model ST 100, sanitary 88
(1) Fitzpatrick Model FA 250, SS, 20 HP XP

(1) Western Precipitation Model P80SSO-A, twin screw, 12" dia. x 20' long, SS constr., jckt. rated 15 pel, complete with 7.5 HP vari-speed drive.
New/Never-Used Joy Processor, CS, eingle screw, 16"x16' long, rated 110 psi @ 340°
F., sprocket & chain drive by 1.5 HP varispeed drive.

Rotary Vacuum

(1) 200 Cu. Ft. Stokes, SS constr., compit. (2) 185 Cu. Ft. Plaudier, Double Cone, G/L, 30 AFV /50 psi iktd., 15 HP vari-drive (1) 150 Cu. Ft. Blaw Knox, Nickel (2) 132 Cu. Ft. Stokes, Nickel (1) 72 Cu. Ft. Blaw Knox, SS (1) 50 Cu. Ft. Titanium Double Cone (1) 50 Cu. Ft. Gemco, 31656 sanitary, double

(1) 37.8 Sq. Ft. Horiz. Thin Film, vsc. int. & 150 psig, 304/31689 (1) 37 Cu. Ft. Gemco, SS (1) 30 Cu. Ft. P-K Twin Shell, 30488 (1) 20 Cu. Ft. Abbe Twin Cone, 30498

Spray

Holoflite

(1) 30"x3" Bowen Laboratory w/3" cone bottom, SS constr., w/centrifugal atomizer, 3 HP blower & motor.(1)
(1) Niro lab size 32"diax2"w/2"cone w/centrif. atomizer SS contacts
(1) 18" dia. Bowen compit. system SS contacts, new 1976

CENTRIFUGES

) Dsiavel BRPX 309, SS, 20HP) Unused Model B-10 Podblelniak, Alloy 20 (1) Unused Model B-10 Podplemiak, Alloy 20 (1) Sharples AS-26, SS (2) Sharples AS-16P, 316SS (1) Alfa-Laval SS Decanter, Horiz., Mdl. NX314 (2) Dorr Oliver Mdl. CH3O CSU "Merco," 316SS

contacts, 180 HP I) Baker Perkins 8-32 "Pusher Type," S8, 50 HP i) Bird 18" x 28", 316 ELC, contour bowl. Bird 24"x38", 31688, 40 HP na ara 29" X36", 31685, 40 HP (3) Sharples P-3000, 31685, 30 HP (1) Sharples P-1000, 88 20HP (1) Unused Bird 38 x96, 317L 88 10"x 20" Tolhurat centrifuge, Kynar lined, perf.

basket Tolhuret 48" x 24" perf, basket, 31685

(1) Toihuret 48" x 24" perf, basket, 3168S sanitary, auto. plow & discharge, rated 85 #/au. ft. @ 900 RPM, 20 HP XP.
(1) Toihurst 48" x 24" Batchmaster, 3168S, perf. basket, w/hydr. plow & 20 HP hydr. drive
(1) Toihurst 48" x24" Batchmaster, rubber lined, perf. basket, w/hydr. plow & 20 HP hydr. drive
(2) Toihurst 48" x 24" Batchmaster, Heresite lined, perf. basket, w/hydr. plow & 20 HP hydr. drive
(1) Western states 48" x 24", 316 9S
(1) Fistcher 48" x 28" Suspended type, SS perf. basket, 20/10 HP
(1) Sherples Tornado 48" x 30". 31698, perf.

1) Sharples Tornado 48" x 30", 31698, perf. basket, 40 HP XP Alfa Laval Model MAPX 210 T24, SS wetted

perts
(2) Sharples C-27, 316 SS, wetted perts, 40 HP
(1) Sharples C-20, Super-D-Hydrator, SS, 30 HP
(1) Dorr Oliver Mercone Screener Model C-400 X2,
all SS, twin screw disch., 10 HP

PARTIAL LISTING ONLY

COFFEE PLANT LIQUIDATION

(1) Mdl. #DASO-6 Fitzmill w/15 HP motor, on stand. (1) Mdl. #D-5 Fitzmill w/15 HP main motor & 2 HP on stand. (1) Mdl. #20H Micro-Pulverizer. (1) Mdl. #37H Micro-Pulverizer. S8, w/40 HP main motor & % HP screw

mators. (1) Micro-Pulseir SS Raverse Jet Ouet Collector, Model #64-5-6-20. (1) 8" x 42" Votator Scrapped Surface Heat Exchanger, w/5 HP motor &

(1) 8"x 42" Votetor Scrapped Surface Heat Exchanges, w/5 HP motor & ickl.

1) 48" Swaco Single Dack Screen w/cover, SS constr., 1 HP

1) 32" w. x 8" ig, Write Vibrating Conveyor, SS, w'cover, 2-deck.

1) 2" W. x 13" Sandvick Bet Flaker, SS, 9" cooling section.

1) Sicken Freeze Dryer System, compit. w/prebreaker, micro-vac. A York chiller.

2) Jones Dewatering Presses.

1) 1500 Gel. SS Jicktd. Mix Tanks, 3 HP, dished top, flat boltom.

2) 2000 Gel. SS Mix Tanks, senitary fittings. % HP Lightnin.

2) 1500 Gel. SS Mix Tanks, senitary fittings, % HP Lightnin.

1) 2000 Gel. SS Mix Tanks, senitary fittings, 3 HP Lightnin.

2) 1800 Gel. SS Mix Tanks, senitary fittings, 3 HP Lightnin.

2) 1800 Gel. SS Mix Tanks, senitary fittings, 3 HP Lightnin.

1) 1000 Gel. SS Mix Tanks, senitary fittings, 3 HP Lightnin.

1) 1000 Gel. SS Mix Tanks, sarritary fittings, 3 HP Lightnin.

1) 1000 Gel. SS Jicktd. Mix Tenks, astronomin, (no egitator)

1) 1000 Gel. SS Jicktd. Mix Tenks, atmos. int., (80 psi jckt.

3) 1500 Gel. SS Mix Tanks, 3 HP Lightnin.

(2) 22' Dia. Spary Dryers, complete system.

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EVAPORATORS

(1) 1.4 Sq. Pt. Luwe Wiped Rim, 316SS, 1.5 HP (1) 1.4 sq. Pt. Luwe thin Rim 56 (1) 2.5 Sq. Pt. Rodney Hunt Turbo Pilm 347 S5 (1) 5.4 sq. Pt. Luwe filmiruder, 316 LSS (1) 6.54 Sq. Pt. Votator Evaporator System, 316 SG contracts, 16 pal & FV & int., 150 psi | kt. (1) 8,7 Sq. Pt. Rodney Hunt Turbo-Film, 304 SG contact parts, 15 pal & FV/150 psi | ct. (1) 10.8 Sq. Pt. Luwa SS Wiped Film Evap. System, 15/550 psi (1) 19.5 Sq. Pt. Votator Turbs-Film, 304 Sanit. SS FV/150 psi 10/49

(1) 20 Sq. Pt. Kontro Horiz. Adjust-O-Film, 316ELC, 50 palg, 18

HP
(1) Approx 31 Sq. ft. Verl., Turbo-Film Processor, 304 S

Contacts (1) Like New 37.8 Sq. Ft. Luwa Horiz, Thin-Film Dryer, 304/316L

\$\$ (1) 40 Sq. Ft. Kentre Adjust-O-Film, 8S constr., 20 HP (1) 47 Sq. Ft. Ariban rising Film, Hart. "C" (1) Approx 51 sq. ft. Pflaudier Wiped film, 316 SS, 100/85 & FV (1) 80 Sq. Ft. Kentro Wiped Film Syst., SS constr., FV/150 psl.

parts, FV int., 150 psi set sleem jkt. (1) 141 Sq. Ft. Rodney Hunt Turbo-Film, 316 SS 15 psi int., 35 psi jkt 40 HP XP

BLENDERS

Approx. 480 Cu, Ft. Cs. 78HP
UNUSED 460 Cu, Ft. Marion Paddia, Cs, 75 HP
400 Cu, Ft. Jt. Marion Paddia, Cs, 75 HP
400 Cu, Ft. Cs Dbl. Cone 30 HP
200 Cu, Ft. Ks 31088 Dbl. Cone
175 Cu, Ft. Ks 31088 Dbl. Cone
175 Cu, Ft. Pk. Twin Shell, 31085
180 Cu, Ft. Jt. Hory bb. Bibbon Carbon Steel Conir. 25 HP (2)
69,3 Cu, Ft. CS Dbl. Cone, 7,5 HP
63 Cu, Ft. CS Dbl. Cone, 7,5 HP
63 Cu, Ft. Sold Sp. Pk. Twin Shell, w/int. bar
60 Cu, Ft. 304 SS P-K, Twin Shell, w/int. bar
60 Cu, Ft. Germon Dbl. Cone, 30495
40 Cu, Ft. Germon Dbl. Cone, 30495
10 Cu, Ft. Pk. 304 SS, W/ing, bar.
20 Cu, Ft. Pk. Germon Dbl. Ribn. CS
15 Cu, Ft. Pk. Twin shell, SS
16 Cu, Ft. WC Marion SS
16 Cu, Ft. Robinson Dbl. Ribn. CS
15 Cu, Ft. Pk. Germon Dbl. Cone, CS, 1\'xHP
10 Cu, Ft. Pk. Sankt Twin Shell 1 VirlP
10 Cu, Ft. Pk. Sankt Twin Shell 1 VirlP
10 Cu, Ft. Howee, CS, Dbl. Rbn.
6 Cu, Ft. SS, Dbl. Cone W/ilquid-solids bar
10" Pk. zig zag
2 Cu, Ft. W.C. Twin Shell, mfg, P-K, SS constr., W/Pin.Int. bar

1-8' dia. x 50' Bartlett Snow Rotary Dryer, SS, 100 HP. 1-8' dia. x 50' Louisville Steamtube

Rotary Dryer, 88 clad, 40 HP. 1-11'6" x 70' lg. Bartlett Snow Calciner, 31688, 1100°C., com-

plete. 1-11'6" die. C.E. Raymond Separa-tor, single whizzer, CS constr. 1-24,000 Gal. Mix Tank, SS constr.,

16' dia. x 16', 20 HP. 1-20,000 Gal. Storage Tank, SS

(1) 1 Sq. Ft. Aribian "Koniro" Ajust-O-Film aya., 31699 (1) 1.4 Sq. Ft. Luwa Wiped Film, 31699, 1.5 HP

RECENT PURCHASES

(1) Carrier 2"x46" Vibrating fluid dryer, 31653
(1) Podbielniak md1. #9700-2 Cant., 250 Pgl
(1) 5,000 gat. CS, Verticel Sphere, Reted 1007 Pgl
(2) 12% dia.x307% Long Packed Col. 30488, 275 dealing pres., (1) 44 sq.ft. Unive Heat Exchanger, all 31658 75/150 pgl
(1) 65 eq.ft. Heat Exchanger, all 31658 75/150 pgl
(1) 95 eq.ft. Heat Exchanger, CS/85 75/75 pgl
(1) 90 aq.ft. Heat Exchanger, CS/85 75/75 pgl
(1) 600 sq.ft. Heat Exchanger, CS/85 75/75 pgl
(1) 1005 aq.ft. Heat Exchanger, All 31638 75/150 PSl
(1) 1005 aq.ft. Heat Exchanger, All 31638 75/150 PSl
(1) 1401 aq.ft. Reboder CS/85 75/160 PSl
(3) 850 gat. Levus Lined Plastic Tants 4*dia.x6%; 3t.6d.
(2) Fairbanks Moree Gas Compressor 3360. CFM 600 h.P.
(2) Hit Type ESV Compressor 50

(1) GATX Fuller Air Compressor 50 HP (1) Corken Compressor 7.5 HP

FILTERS

Pressure Leaf 1-562 Sq. Ft., 316ELC, Hercules, 28 leaves 1-512 Sq. Ft., 316SS, Niegara, 21 leaves

1-400 Sq. Ft. R/L Sparkler 1-327 Sq. Ft., 304SS, Ind. Filter, 11 leaves 1-320 Sq. Ft. Durco 316 SS, 11 Leaves 1-259 Sq. Ft. Pronto Mdl. #3259, 75 paig 1-200 Sq. Ft., S8, Hercules, Horiz. 1-191 Sq. Ft. Enzinger, S8, Vert., 76 pal 1-182.4 Sq. Ft. Sparkler, 304 SS, Horiz 1 - 157.64 sq. Ft. Sparkler model 55-8-28,

31695 1-150 Sq. Ft. Horiz., 12 Vert. Leaf 31658 1-130 Sq. Ft. Nil, Bowser, Vert.
1-35 Sq. Ft. Hercules Model 5, 316 SS, horiz, tank vert leaves 50 psl
1-Sparkler Mdl.#18 D 12, SS const.

1-Sparkler Mdl.#18 D 4, constr. 1-Sparkler Mdl.#33S 28, constr.

Rotary Vacuum 1-56.5 Sq. Ft. KS, Inconel 600 1-50.5 5q. Ft. KS, incone: 600 1-56.5 Sq. Ft. K-S, 316SS, flexibelt disch. 1-87.92 Sq. Ft. Feinc, SS wetted parts, apring disch., 56" dia. x 8" face drum 1-132 Sq. Ft. Dorr Oliver, 304SS, maxibalt

disch. 1-200 Sq. Ft. Eimco, 316SS, 8'x8' 4-250 Sq. Ft. D.O. 316L SS Precost, 8"

x10', sanit 1-250 Sq. Ft. K-S 316SS, coli diach. 1-300 Sq. Ft. Eimco, 316SS wetted parts, precoat type w/knife disch., 10" dia. x 10" drum, compit. w/control panel &

aux. equipment 1-314 Sq. Ft. Eimco, precoat diach., 31688 1-400 Sq. Ft. Elmco, CS, Precost 1-500 Sq. Ft. Elmco, 316SS, belt disch. 1-3'x1' 31698, knife disch. 1-3'x1' Dorr Oliver, FRP w/receiver & Nash H4 vac. pump, 10 HP 1-3'x 1' K-S comp. sys., 316 89 Flex-belt

2-10,000 Gal. Storage Tank W/-jckt., SS constr., atmos. int., 150

pel jokt. 1-10,000 Gal. Mix Tank, 88 constr.,

13' dia. x 10', 30HP. 1-10,000 Gal. Mix Tank w/int.

colle, 13' dis. x 10', 30 HP. I-Marley NC Tower, 88"W. x 14'6"

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4,000 gal Pfaudler, 50/30 psl
3,700 gal Glascote, 50 & FV/90 psl
3,000 gal Glascote, 50 &FV/90 psl
3000 gal Pfaudler, 75/90 psl
2,000 gal Pfaudler, 76/90 psl
1,000 Gal. Pfaudler, 100&FV/90 psl,
4RW

1,000 Gal. Praudier, 100aPV/90 psi, 4RW 1,000 Gal. Pfaudier, RA60 Series, 100& FV/90 psi, 4DW 1,000 Gal. Pfaudier, RA60 Series, 100& FV/90 psi, 4TW 800 Gal. SS clad, 60/60 psi 750 gal. DeDistrick, Phila drive 500 Gal. Pfaudier, 100&FV/85 psi, BH drive

Stainless Steel
4,000 Gat. 31688, Atmos./50 psl, withcolla
3,000 Gat. 34788 Blaw Knox, 150/50 psl
2,500 Gat. 316t. S8, 75/75 psl, 150 psl int. colla
2,000 Gat. Nooter Autoclave, 316t. 2000
psl, FV int. colla
2,000 Gat. Dusenberg, 316 SS,15/35 &
FV int., 50 psl jkt.
1,750 Gat. 316SS Noite, 1467/50 psl
1,500 Gat. 30488, 10 HP Lightnin
1,500 Gat. 30488, 10 HP Lightnin
1,500 Gat. 30488, 250/80 psl
1,000 Gat. 316 SS, 50/75 psl jkt
1,000 Gat. 316 SS, 15 & FV/50, 10 HP
1,000 Gat. 316 SS, 15 & FV/50, 10 HP

1,000 Gal. 316 SS, 100/30 10 HP 750 Gal. 316 SS, 75 & FV/50 pal 750 Gal. 304SS, 50/60 pal 600 Gal. S169S, 3000pal, 10 HP 600 Gal. S8, 50 pal, 1.5 HP XP 500 Gal. 316SS, 55 & FV/55 pal 450 SS, 50/75 pal

450 SS, 50/75 psi 100 Gal. 316SS, 15/50 psi 100 Gal. 316ELC SS, 500/90 psi

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5 Gal. AMK 304SS Jcktd. Kneader Extruder
15 Gal. W.C. Readco Sigma Blade Dbl. arm
25 gal. Readco DBL/Arm Sigma Blade jktd. SS
construction 15 H.P.
80 Gal. Hockmeyer Pony, SS contacts, 7.5 HP

varispeed
100 Gsl., SS, Sigma Blade, Jcktd. 40 HP
200 gsl. W-P CS dble arm Sigma blade, 20 HP
500 liter Welex hi Intensity, SS contact parts
500 Gsl. S-W Rubber Cament, CS, 2-10 HP

500 Gal. S-W Rubber Cament, CS, 2-10 NP motors (2) Unused 1000 Sal. Sanitary 316SS B-K Dbl. Motion Change Can; 1004FV/165 PSI, 125HP Littleford Model FKM-600D, SS Littleford Model FKM-2000, SS, w/choppers 7 Cu. Ft. 304SS Nauta Model MBX-70 10.6 Cu. Ft. Nauta D-106, CS Welding Eng. Model 2FV1V2S Twin screw Extruder, SS, Contacts, 150 psi Koehring mdl. 350, 40 HP NEW/NEVER USED 76/37.5 HP Hockmeyer Diaperset

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22489 Walter 750 gal. Reactor, 5' dia, disher heads, T 304 SS.

540-Sandvik 2'x40", beit flaker 2541-Tanks, S/S, 5'x6' (2) 2542-Cowles despenser, 100 HP 2544-Mikro 2DH pulverizor

22544-Mikro zum pulvenzor 22548-P/S belt dryer, 4'x10'. 22549-Day, 85 cu. ft. ribbon blender, S/S. 22550-Ribbon blender, S/S, 40 cu. ft. 22551-Kettles, 8'x10', S/S dimple jkt. (2) 22551-Kettles, 8'x10', S/S dimple jkt. (2)
22553-Quincy Air Compressor
22557-Raymond #50 Intp mill.
22552-Raymond 1A Hammermill.
22545-Caddington bag packers (3)
22447-Dyna Mill mod. KD200, horiz. (2)
22446-Plaudier 30 gal. G/L reactor (2)
22351-Allas Copco air compressor. 600 CFM @ 125 psl. 125 HP. (5)

22351-Allas Copco air compressor, 600 CFM @ 125 psl, 125 HP. (5) 22441-Pappenmeier 600 gal. Liter Mixer/Coller 22460-P.K. twin shell blander, 1 cu. ft. 325 lbs/cu. ft. L/S stainless, w/drives 5 HP bar, 34 HP main. 22461-P.K. 1 cu. ft. 5/S, 275 lb. dansity, 30 lb. jkt., vac., 34 HP vari speed main, 2 HP bar, 22344-Christian nobon mixer, 36 cu. ft. steel jacket, 7.5 HP. unitized.

7.5 HP. unitized.
22342-Sheet extrusion line, Prodex 4.5", 24:1 L/D, 50 HP, siheet die, chil roll stack, Farnco shear.
22343-NRM Terret Winder, 48-46 w/2 adjusto spaed motors, 1 HP
22449-Gemco 10 cu. ft. S/S, jkt. L/S processor
22498 Acrison mod .203-1052, 1/2", 2/2", 4" auger widnivas (3)

22498 Acrison mod .203-1052, 172 , 273 , 4 suger w/drives. (3)
22497-Sparkler mod. 18S11, T304 S/S
22489-Walter 750 get. reactor, FV/100 lb., jkt. 40 lb., 30 HP vari dual motion.
22487-Walter 225 get. reactor, FV/100 lb., jkt. 40 lb., 10 HP vari dual motion.
22453-Stokos mod. 280 F, 109 ton press.

MIXER - DBL. ARM 22448-B P. 100 gal. Sigma, S/S, tilt.

22439-8.P. 100 gal. Sigma, S/S 22440-B.P. 200 gal. Sigma, bit. 22435-Alleh Mixer, 250 G. Sigma, S/S, Jkl., vac, 100 HP MIXERS - PLOW

503755-Littleford, FKM 600D, SS Jacketed, 25 HP. 20754-Littleford, FKM 3000D 85 CF, S/S, full jacket. 19214-New Plow Mixer, 80 cu. ft. 3475S, jacket, 100HP, 20829-Littleford FKM 4200D, S/S, 87 cu. ft. JKT.

MIXER RIBBON

21 120-Ribbon Blender, S/S, 10 cu. ft., |kt. SS, 150 psi, 20278-Read ribbon blender, 14.7 cu. ft. 304SS, 3 HP. 20616-Unused Day, 31688, 23 cu. II., 5HP. 20189-Robinson, 25 cu. It., S/S, Jacket, 10 HP. 22344-Chnatlan Rubbon Blander, 30 cu. ft., C/S dbf spiral Ribbon Inner & Outer

20985-Int'l 34 cu. ft. S/S dbf. ribbon, 5 HP. (4) 20212-Haas ribbon, 36 cu. ft., S/S, 15 HP, 19266-Ribbon Mix 80 cu. ft. T304 SS, 5 HP (4) 19568-Howe, 115 cu ft., sanitary S/S, double spiral ribbon. 20983-Strong Scott blender, 130 cu. ft., 304SS, 25 XP gear

motor. 21124-Ribbon Blender, 304SS jkt., 160 cu. ft., 30 HP. 20614-Unused JH Day ribbon, S/S 270 cu. ft., 25 HP. 21114-JH Day ribbon blender, S/S clad, 75 HP, 460 cu. ft.

MIXER/EXTRUDER

22352-Twin screw extruder (NA Bitruder Co), 65 mm, elect. heated, 20 HP DC, pellett die, vac pump used 100 hours 17654-AMK 25 gal. Mixttruder, Sigma, ST 7.5 HP. 8-J.H. Day 25 gal. Dispersion, 25 HP vari main, 10 HP

20986-AMK 30 gal S/S, jkt. Sigma, 7.5 HP Main, 6 HP screw. 21334-Ross 40 gal , S/S hortolijkt., Sigma 6" disch. screw.

21334-Ross 40 gal , S/S hot oil jkt., Sigma 6" disch. screw. 19826-AMK 50 gal. ST, jkt., Sigma, 10" disch. screw. 19421-AMK 75 gal. ST, jkt., Sigma, 10" disch. screw. 17136-AMK 120 gal., ST Sigma, 11.5" screw. 14832-AMK 150 gal., S/S, Sigma 15HP main, 10HP screw 1949-AMK 150 gal., S/S Sigma, 50 HP main, 10HP screw 20116-AMK 150 gal., ST, Sigma, 15 HP/10 HP 503527-New Aaron 300 gal., T304SS, mix extrudor, Sigma, ikt., uo to 200 HP main, 75 HP hvd. screw.

50527-Year Asion Joo gai., 130455, frix extrudor, Sigma, jit., up to 200 HP main, 75 HP hyd. screw.
504528 - Aaron 300 gai. mixer/axtruder T3048S, Sigma 150 HP, screw 75 HP hyd. jitt. 200 psi, Vac Cover, Excellent condition. Call Steve (312) 350 - 2200 21350-B.P. 500 gal. Sigma steel, jkt. 125 psi,150 HP, Hyd. tilt

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NEW SANITARY USDA APPROVED RIBBON MIXERS

(Available From Stock)

Quoted as standards, available with ASME code dimpled Jackets

UNUSED CENTRIFUGES 21593-Sharples P5400 Sanitary Centrifuges w/200 HP motor, 25 HP backdrive, gearbox, 5" pitch conveyor, CIP, control panel (2) LATE MODEL

CENTRIFUGES

22314-Sharples #16 Super Centrifuge S/S, 3 HP, cooling colls clarifler (22) 20827-Bird, 18"x24" atest, conical bowl 20826-Bird, 24"x38" steel, con. bowl, gearbox 20819-Bird, 24"x38", S/S, 15 degree, contour bowl 20684-Bird 24" x60", H series, steel w/motor. 20364-Bird 32" x 50" SS T316 contour, 76HF 12883-Bird 36" x 96" contour, 10 deg., T317 ELC. 20137-Alfa Laval, NX 418-B31-60, 316SS, gearbox 17308-Dorr Oliver, 304SS, Merco mdl. 16L, 30 HP. 13565-Sharples, rndl. P 600, gearbox, moto 19767-Unused Sharples, 3 phase, P3000, S/S, carbide 20407-Sharplas P2000 316SS, 20 HP drive motor. 21359-Sharples P3000 w/gearbox. 20686-Sharples P3000, 52:1 gearbox, S/S casting. 21725-Sharplos, P3400, S/S, gearbox & motor. 19249-Sharples, P5400, 316/317SS, 200 HP, gearbox

CENT-BASKET VERT.

21408-Delaval 22"x16" perf. basket hyd. dri 15B15-Delaval Mark III, perf. basket, 40"x24". 316SS, 3 HP, hydr., drive 19446-Sharples Sludgo-Pak, SP-5500, 40"x24" bask

CANADIAN BUYERS LIQUIDATION-QUEBEC

22373-Reactor, 3500 gal. 8 x9 H, S/S clad, agit, dimple

jackel. 22361-Reactor, 5000 gal. 10'x92''H, T316S clad, internal 330 b., jkt 75 b., agit 30 HP, vari speed. (2) 22379-Philadelphia, 7V63 agit drives, 10 HP, S/S (4) 22366-Siebtechnik H-400 centrifuge conturbex horz. screen, S/S, 20 HP. 22365-Cimatrol water chiller LFV151172, 40 tons. 22365-Cyclone Sepeartor, 40" dia. x 2' plus 6" cone, S/S,

22375-Sweco 30", 3 deck, S/S, ½ HP (2) 22387-Weukesha mod. 300, Sani pump, 6"x6", 15 HP

DRYERS

20261-Glatt fluid bed dryer, TFO-60, S/S, 10 HP 20294-Sisterville, 150 cu. ft., T304SS, 8 da. 15 HP 2219-Abbe dbt cane dryer, 20 cu. ft., T304SS, 1 HP, 21397-Divine shell dryer, 356 sq. ft., #25 C.I. (27) 504474- 'Unused' Young vac, dryer, 4' dia, x14', 140 cu. ft., T316LS/S, 25 HP (2) 2032-Reposies Colleger, driver, 55 de 2012 20327-Ruggles Cole dryer. rotery, 54" da.x35"L. 15H 20951-Niro spray type F-10 atomizer, 10 da.x 304SS 21727-Kaiser Pastillators, 5x20", S/S const. w/drye

TANKS-S/S

22257-UNUSED Tank, 100 gal., T304SS, 30" dia., DH 22253-UNUSED Tank, 550 gal., T304SS, 4" OD, OH 22266-UNUSED Tank, 1200 gal., T304SS, 5" dia.x7"H, DH. 21283-Tank, S/S vert., 1200 gal., 6" dia.x6", flat top & bot. 22255-UNUSED Tank, 1800 gal., T30488, 6'x6" dig.x7'3" 22254-UNUSED Tank, 3,000 gal., T304SS, vac., 5' dia. x21°H, coll.

20651-Tenk, SS, 9000 gal., agil., 12' dia. x 14'6" H. 20655-Tank, SS, 12000 gal., 12' dia. x 14', flat bottom, open top. 17043-Jos Oal horz, tank, 3049S, 16,000 gal., 12'6" dia. x

22'917" long, 10 PSI. REACTORS

20252-Unused Reactor, 600 gal., 3048S dimple jktd. 10138-Pfaudiar, 800 gal., T-316 L SS, 55 PS int/150 PSi. 20928-Brighton, 4000 gal., 8' dia. x 10', 316 ELC S/S 20456-Reactor, 4,000 gal., 316 S/S, 8' dia. x 7'9' at. aide. 15475-Brighton, 4000 gal., 316 SS, vacuum. 20287-GH Hicks, 4000 gal., 316 SS, pipe coli jkt. 20923-Richtend Eng. Reactor, 4600 at. 20923-Richmod Eng. Reactor, 4800 gal., T316 stein/ctel. Plaudier 10,000 gal. reactors T316L, 100 psi int, 180 psi. Plaudier 15,000 gel. reactor T316L, 100 pai int., 200 pai jkt.

UNUSED Manesty Express, 10 ton, 20 stations 11602-Colton Press mod.260, 31 die stations, 1800 TAB 21382-FJ Stokes rotary tablet, 15 station, 10 ton 21418-Manesty rotary tablet, 16 station, 10 tori. 14425-Stokes Tab Press mod. #551, 51 station, 4 ton. 21417-FJ Stokes rolary, 27 station, 4 ton, double sided. 503881-Komerak Greaves, mdi. 75MSS briquetting press 20.5" dia. x 4.5" face.

13392-Fitzpatrick Chilsonator, 50 HP, mdi, HA-50-30-210 18802-Stokes single puchh press, 900-530-1 (T4), 12 ton. 17224-Dorst compac., series TPA15, 20 tons. 10890-Stokes, mdl. R-4 press, 20 ton



22215-Wilmes Bledder Press, S/S, 38" diz. x 9'9" long, horiz, 5 HP, unltized. (2)

DUST COLLECTORS 21125-Fabri-fJet jdl SQ9-4B bin vent, 42 sq. ft.

16398-Mikro dust collector, S/S, 63 sq. ft., mdl 9-6-100 21153-EVO, bin vent, 72 sq. ft . S/S, 5 HP 20253-Unused EVO pulso jet collector, mdl. 84BF009C, 96

21192-JH Day mdl. RJ-18RJ36, 125 sq. lt., CS, 3 HP. 21222-Fabri-Jet, mdl SO16-80, 151 sq. ft 20398-Pulse jet collector, "FlexKloan," mdf 58CT24 AV II

w/175 sq. tt., cloth, C.S 21286-Mkro dust collector, 285 sq. ft , S/S 20256-Whused EVO Corp. pulso jet dust collector, indi 99BF030C, 350 sq. ft. 20255-Unused EVO Corp. dust collector, shaker type, mdl MS049C10, 575 sq. ll.

SCREENS

21203-Sprout Waldron silter, D10, 6 decks. 21150-Sprout Waldron, D10, 1 HP, 10 decks. S/S cont 21167-Sprout Waldron, D10, 2HP, 10 decks, S/S cont

ROTARY VAC DRYER

22210-Bertrams, S/S 6'dia. x 12' dished heads, half pipe coll jacket 200 psi, 20/13 HP, unitized.

FILTER PRESSES

19846-Shriver P&F filter press, 12"x12" alum. plates, closed delivery, 23 chambers. 20534-Sperry Fitter Press, 30", elumn. 20539-Sperry fitter press, 30", 35 Aluminum plates, 357 sq. 15370-Shriver 32" x 32", polypropylene, 27 plates, ratchet

cosing. i5929-Shriver ALP, plate & frame, 18 36" x 36", S/S re-19462-Independent filter press, 42" x 42", polypropylene 4 eye closed, 34 chembers. 550-Sperry filter press, 42" Ehol closer, 41 alum. plates

FILTER-ROTARY VAC.

15828-FE,inc. 38" dla.x12", S/S, string dlsc., 1/2 HP. 17477-FE, inc., 3" dfa.x 5", T316SS, belt dlsc., vac pump. 17477-FE, inc., 3' dfa x 5', T316SS, belt diac., vac pump.
11177-Dorr Oliver S/S, 5' dfa, x 6'L.
11653-Gövar T-316SS, precost 5'3" x8'.
19431-K.S. flexibelt, 6' dfa, x 6' face, 316SS.
18392-Eimco belt filter, 8'x10', steel drum, w/Nash pumps.
15827-Ametek, 8' dfa x14'0" face, mexi-belt, S/S.
17938-Eimco, 316SS, 10' dfa, x 14', kinlife discharge.
17283-Impoobelt filter, 12' dfa, x 12', 304SS, Nash vacuum
20261-K.S. T304, vacuum filter, 12' dfa x 14', 304SS. 20323-Dorr Oliver 11'6"x16" face, 5/\$ cont. parts. 11488-Eimco 10 x10 rotary vac. fitter.

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POLYSTYRENE **PLANT**

ILLINOIS LOCATION

21899-Pfaudier Reactor, 1,500 gal., 316L SS dimplejkt. 21896-Pfaudier Reactor, 10,600 gal. 316L SS clad, 60 HP. (4) 21900-Přaudier Reactor, 15,000 gal. 316L S8 dimple

21897-Metal Arts Corp. vessel, 17,000 gal. vert. 317L

SS. (2) 21898-Brighton Corp. Tank, 12,000 gel. ven., solid 316L SS. (2) 21875-Bins, 176 cu. ft., S/S, cone bottom flat top. (4) 21891-Bins, 450 cu. ft., C/S, epoxy lined, (8) 21904-Bins, 450 cu. ft., C/S, epoxy lined, (6)

21905-Bins, 500 cu. ft., C/S, epoxy lined, flat top, conl cal bottom. (4) 21918-Worthington cent. pump, C/S, 15 HP, 200 GPM at 44 psig (2) 21916-Union Pump-Inline, C/S, mod. 4x6x8.5 VCK, 40

HP. (4) 21906-Edw Renneburg Rot. Dryer, S/S, steam heat, 10

21881-Heaters, C/S steam, type BNF 2420 (8) 21914-Flotronics bin vent, filters, 122 sq. ft., 12 bags. 21889-Katron Feeder twinscrew, S/S mod.5400-150(4 21901-Sparkler filter, 352 sq. ft. C/S, mod. VR-32-32. 21882-Screw conveyor, 304 SS, 7" dia. x 11L, 1.5 HP. 21888-Strong Scott Rib Blender, 25 cu. ft., 5 HP. (3) 21920-Welex extruder 6", 30:1 L/D, 400 HP. 21870-Welex extruder 6", 30:1 L/D, 600 HP. 21876-Consir pelletizer, S/S, mod. 1024, 40 HP. (2) 21874-Water bath, S/S, portable. (4) 21887-Ross Static Mixer, 304SS, 3"x6 element. (4) 21917-Ingersol Rand pump, in-line pump, (5/5, 30 HP. 21915-Goulds, C/5 turbine pump, 200 HP. (2) 21913-Worthington cent. pump, \$88, 2 HP. (4) 21912-Union pump, inline, \$/\$, 7.5 HP (2)

21910-Tank, 840 gal., flat top & bottom. 21920-Modern Welding Tank, 4600 gal. horiz. rubber lined. 21878-Gorman Rupp pump, centrifugal C/S, mod.

82EZ. (2) 21871-Prodex extruder 8", 30:1 L/D ratio, 600 HP. 21892-Buffalo blower, size 30, C/S, 10 HP (3) 21908-Buffalo exhaust fan, size 36, type B, 15 HP. 21880–Sutor Bill Blower, C/S, 40 HP. (4) 21922–Buffalo blower, type 40-3CB, 40 HP. (4) 21894–Buffalo blower, med. 45-3CB, 75 HP. (3 21883-Bird, 32x 50 centrifuge, 80:1 gearbox.



21883-Bird Centrifuge, 32x50, 80:1 gearbox.

21893-Environeering scrubber, mod. A33-14000 21895-Tenk, 850 gal. vert. coal tar epoxy lined. 21911-Tank, 54000 gal. vert. C/8 epoxy coated its

21903-Tank, 60,000 gal. vart. C/S epoxy, flat bot. conlcal top. 21902-Worthington compressor, mod, 488-2; vert. 126

psl. (2) 21879–8weco sifter 60", mod. L880888, 2.5 HP, 21923–Kason sifter 60", mod. K60188, 3/8, 1HP, 21884–Flotronics Cyclone mod. FTHEC370-T, 304 8/6 12" dis. dish top. (3)

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35,50,150,300 sq.ft. Press Leaf S/S

29,000 GAL. HORIZ. 31688 Tanks 40# (2)

12000 Gal. Horiz SS w/Top Agit, DH. Hds. 16,000 Gal. S/S Reactor 50#/50# 30 HP Agit

30,50,150, 200, 1000 Gal. S/8 Reactors 100#/75#

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PFAUDLER 1500 gal. 8/S Reactor MG 1000, 2000, GPH HOMOGENIZER 3000 psi.

65 HP MODULATIC Boller 250 psi Gas Fired

6'8"x 78' Autoclave 150# w/track QOD -FITZ Mills S/S D, D12, FAS012 & Chilsonator

-F112 mills 5/5 b, 5/2, FA50/12 & Chilsonator 7'x(any length) AUTOCLAVES 100# Code W/Track -100-10,000 sq.ft. Ht./Exchr's S/S & C/S 150 cu. ft. P/K Twin Shell stl. 10 HP -100-10,000 gal. G/L Tanks & Reactors Micro - Pulv. 1SH S/S 5HP W/Screw Feed

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SIMPSON 11/2F, S/S MIX MULLER

200 Gal. S/S Reactor 150#/150# W/Agi 1,200 GAL. T-316 SS REACTOR 30 75/# JKT. w/Agit.

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BAKER PERKINS HS-10W S/S "Lab" peeler BIRD 24x60 ST/CCF design WESTFALIA SAMR 5036 SS 15 HP DELAVAL ACVO Disc/Nozzle SS 20 HP KRAUSE-MAFFEI 18.5" Pusher S/S (Rebuilt SHARPLES P-3400, 4000 SS horiz. solid bow ALFA-LAVAL NX-214SS DECANTER 20 HP SHARPLES 48"x30" T-1600 AUTO 316 SS (2) SHARPLES Mark 3 14" SS perf. auto basket

MIXERS/BLENDERS P/K 2, 10, 15, 75 cu.ft. SS Twin Shell w/bar 5, 20, 60, 70, 320 cu. ft. S/S dbl. cone w/drive 120,135, 155, 175, 250, cu.ft. dbl rlb S/S 300 gal. J.H. Day Pony Mixer Steel w/can (2) Vrieco 100 cu.ft. S/S Nauta Mixers

LITTLRFORD 42 cu. ft. S/S jkt. w/choppers 5, 100, 300, 750 S/S dbl. arm w/drive

SAVE

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Patterson 49 cu. ft. rot. vac. cyl. S/S 3'x 7' P/K 5, 10, 370 cu.ft. SS liq-Sol. Processor LOUISVILLE 8x45 SS Rot. Hot Air-Steam BOWEN 4'8" No. 2 TOWER SPRAY DRYER S/S GAS NOZZLE Spray Dryer, Bowen 30" lab, Niro 48" utility S/S

VIDEX WAREHOUSE SPECIAL (2) Sharples "Tornadomatic" T-1600H

Automatic Basket Centrifuge 48"x 30" PLANT SITE Deep, T-316 SS (Rebuilt) SPECIALS 36"x72" Bird horiz, solid bowl cent. sti. Stansteel 8x50 Rot Hot Air Dryer w/Burner, C/S 80" Sweco S/S 1-deck screen

60" Sweco S/S 1-deck screen
2000 gal. Pfeudier G/L reactor w/agit.
8lrd 40x60 316 S/S Cens. 114:1 100 HP
Feinc. 5"x7" S/S Rot Vac filter
40"x 120" S/S Rotex Vib. Screen 2-deck
12,000 gal Frp Vert. Tanks (2)
1000 gal. Pfauder G/L reactor 75#/75# w/agit.
Blrd 1 8x28 S/S Contour Bowl Centrifuge
P/S 6"x 45" SS CONVEYOR DRYER
22,500 Gal. Tank/Silo SS Vert 12 ft. x 24ft.

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EVAPORATOR-6.54 sq. ft. Rodney Hunt, S.S. 316, Hot Oil Jkt. EXCHANGER-388 sq. ft. 304 S.S., 150 PSI UNUSED (4) EXCHANGER-276 sq. ft. 304 S.S., 175 PSI UNUSED EXCHANGER-276 sq. ft. All 316 S.S. 150/3000 PSI Code EXTRUCTOR-Rietz 6", S.S. 304, 5HP Vari XP

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PROCESSOR-10 cu. 11. P.K. V-type, S.S. Jkt. Vac. 550# (3)
REACTOR-50 gal. Pfaudler (S.S. 316, 60/90 PSI, TW Drive
REACTOR-5 gal. Pfaudler, S.S. 316, 60/90 PSI, TW Drive
LARK-9500 gal. Horizontal. 304 Stainless Soddles

7-9500 gal. Horizontal, 304 Stainless Saddles

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TANK-1000 gal, Plaudier Glass-Lined Vertical TANK-30 gal, Plaudier Glass-Lined Vertical TANK-30 gal, Plaudier GlassLfried Jacketed VACUUMPUMP-1550 CFM (0) 24" Nash H-10, 125 HP VACUUMPUMP-Stokes 300CFM 412-H, 10HP (5) VERSATOR-D-8 Cornell, S.S. 316, 113 HP Vari XP

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50 Gal. G/L reactor/still
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Mdl 150M9-20.5:9.2, w/rolls measuring 20.5" x 8.2", 85 HP sz 300 speed reducer, 34.2:1 ratio to Linkbelt van speed dry, Incl K/G hydraulic cylinder, mdl H-21-3 and foeder.

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(12) 40" x 60" Bird decanter, S/ST, 15/3 deg. contour, 5" pitch, single lead conveyors, w/ Stellite hard surfacing, 80:1 gearbox, 100 HP V-belt main mtr drv. New late 60's. Has seen limited uselli

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5' dià x 8' wd, S/ST, system incl drives veçuum pump & receiver.

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LINK BELT ROTO LOUVRE DRYER

10'3"x36' lh, mdi 1003-36, complete systen Incl 50 HP drv, firebox w/200,000,000 BTU gas burner, all fans, duct work & controls, multi-cyclone collector, Siy 30,000 CFM baghouse.

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PRESSES Shriver 36"x36", closed delivery, 1%" thick frames, hydraulic closing system. 4 IN STOCK

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(3) Raymond high side roller mills, mdl 5057. double whizzer separator, fan, feeder. cycione, duct work & bucket clevator.

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:16 S/ST, mdi CRJ-S84-29, 1100 cu. fti, 150 HP drv, 550 sq. ft. of heat transfer area, 84" dia x 29' lg.

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(1) 800 sq. ft. & (1) 200 sq. ft. rubber lined tank, quick opening pneumatic door, otractable tank assembly.

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Mdi L-12, steam heated, 48" dia S/ST trays & sides, w/heater controls, radiator & feed system.

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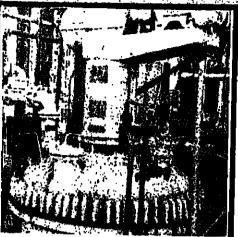
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P.O. Box 7632-O San Francisco, CA 94120 Call Toll Free 800 227-4544 In California Call 800 792-2975 OR 415-467-3400 Telex 340-21:

December 29, 1986 CHEMICAL MARKSTING REPORTER



KETTLES-REACTORS, SS

30,000 gal. 304SS fermantors, 14' x 24', 25 pai/vac., colls, 200 HP agit. (4)
5,000 gal. 304SS, alm. Int., 75 pai kt., agit.
4,100 gal. 304SS kettle, 16 pai kt., 5 HP agit.
3,500 gal. 316SS kettle, 20 pai kt., 7'/s HP agit.
2,500 gal. 304SS reactor, 75 pai/FV Int., 180 pai kt.
1,500 gal. 304SS reactor, 75 pai/FV Int., 180 pai kt.
1,500 gal. 304SS reactor, 15 pai int., 25 pai kt., 5 HP agit.
900 gal. 304SS reactor, 15 pai int., 25 pai kt., 5 HP agit.
900 gal. 304SS reactor, 300 pai int., 75 pai kt., colls (3)
500 gal. 304SS reactor, 150 pai int., 150 pai kt., 5 HP agit.
300 gal. 316SS reactor, 75 pai/FV int., 60 pai kt., 5 HP agit.
(50)... 316SS and 304SS reactors and kettles from 5 50)... 316SS and 304SS reactors and kellies from gallon to 400 gallon... call for list.

BIG PFAUDLER 316SS REACTORS (3) 15,000 gal. Plaudlor, 316SS,

12'6"x 15', 100 psi, 200 psi jkt. Agit. (4) 10,000 gal. Plaudlor, 31658, 11'6"x 12'4", 100 psi, 180 psi, jkt. Agit.

REACTORS-GLASS

2 gal. Pfaudler, 750 pal/FV, 700 pal |kt. 20 gal. Pfaudler, 35 pal, 100 pal |kt. 20 gal. Pfaudler, 35 pal, 100 pal |kt. agit. (2) 30 gal. Pfaudler, |ktd. 50 gal. Pfaudler, 25 pal, 100 pal |kt. agit. 1975 100 gal. Pfaudler, 25 pal, 90 pal |kt. agit. 1975 100 gal. Pfaudler, 25 pal, 90 pal |kt. agit. 1975 100 gal. Pfaudler, 25 pal/vac., 90 pal |kt. agit. 300 gal. Pfaudler, 100 pal/vac., 90 pal |kt., agit. 500 gal. Pfaudler, 100 pal/vac., 90 pal |kt., 5 HP agit. 750 gal. Pfaudler, 25 pal, 85 pal |kt., 5 TW agit. 1,000 gal. Pfaudler, 100 pal/vac., 90 pal |kt., 10 HP agit. 1,500 gal. DeDietrich, 100 pal/vac., 90 pal |kt., 10 HP agit. 1,500 gal. Pfaudler, 100 pal/vac., 90 pal |kt., 15 HP agit. 2,000 gal. Pfaudler, 100 pal/vac., 90 pal |kt., 15 HP agit. 2,000 gal. Pfaudler, 100 pal/vac., 90 pal |kt., 15 HP agit. 2,000 gal. Pfaudler, 100 pal/vac., 90 pal |kt., 15 HP agit. 2,000 gal. Pfaudler, 100 pal/vac., 90 pal |kt., 15 HP agit. 2,500 gal. Pfaudler, 150 pal, 90 pal |kt., 8 TW6 agit.

2,500 gal. Pfaudier, 150 psi, 90 psi jkt., #TW6 agit.

NEW LIQUIDATION...!! POLYETHYLENE RECOVERY PLANT - QUEBEC **EQUIPMENT NEW EARLY 1980'S I**

1-1800#/ Day dissolver/extraction system
1-Barr & Murphy 2-stage continuous
S/S Field Bad Dryer, 3'x15'
1-Durham - Busch 157 Ton Chiller
5-Nash CL403 Vac. pumps, 40 HP
1-Strong-Scott 200 cu. ft. steel
Ribbon Blender, 25 HP
1-Sargent conveyor dryer, 8/S, 6'x24',
Steam heat

NEW LIQUIDATION...! CELLOPHANE PLANT...NORTH CAROLINA

1-impco continuous pressing, conveying, shredding and condensing system 5-Šaker-Perkina 135CF Berralte Mixera,

5-baker-tellinis (1886) Jacketed. 9-Rietz RDH18 Disintegrators, 60 HP 8-Sperry 38" x 38" Ci Filler Presses 1-Stokes 18"x 2" S/S cied Rot. Vac. Dryer

for Process

DRYERS Nooter 4' x 14' rot. vac., 31688, 1982, NEW (3)

Blaw Knox 6'4"x 40' SS vac. dryer, 600 cu. ft.

Blaw Knox 36"x 20' vac. dryer 318L SS, 72 cu. ft. Blaw Knox 66"x 36" vac. dryer, nickel Mathia 24"x48" flaker, chrome plated Sandvik 48"x24" SS beit flaker, UNUSED Sargent 60" x 45" SS conveyor dryer Blaw Knox 32" x 90" dbl. drum Aeromatic #ST-5 fluid bed dryer, 5/10 KG Witte 36" x 10' fluid bed, SS, sanit.-cooler Renneberg 36" x 20" rotary dryer, 316 SS 96" x 50' Louisville SS rolary dryer 10' x 100' GATX rot. steam tube dryers, 140 psi (4) Wysemont #VTL-24 Turbo-tray dryer, 304SS P-K 5 cu. ft. vac. dryer, 304SS P-K 20 cu. ft. vac. dryer, 304L SS (2) Abbe 30 cu. ft. 30455 vac. dryer Devine 110 cu. ft. 304 SS vac. dryer Pfaudler 165 cu. ft. glass-steel vac. dryers (2) Abbe 326 cu. ft. 316SS vac. dryer Devine 370 cu. ft. 31658 vac. dryer Devine 564 sq. ft. vac. shell dryer Niro 30" 6S spray dryer Bowen 72" spray dryer, 89 Bowen 96" spray dryer, SS

FILTERS-VACUUM

36" x 1' Dorr-Oliver, fiber glass 9 sq. ft. 36" x 1' Amelek, 316 SS, 9 sq. ft. 40" x 3' Bird-Young, SS, 48 sq. ft. 4' x 16' Elmco, 316SS, 64 sq. ft., horiz. 6' x 3' Ametek, SS, 55 sq. ft. 6' x 4' Elmco, "Elmcornel" polypropylene, UNUSED 8' x 8' Elmco, 8S, 200 sq. ft., precost 8' x 10' Dorr-Oliver, 250 sq. ft., precoat 8' x 12' Elmco, 3166S, precoat, 300 sq. ft., (3) 8' x 14' Dorr-Oliver, 316SS, precoat, 350 sq. ft. (2) 10' x 10' Elmco, 316SS, precoat, 314 sq. ft. 11'8' x 16' Elmco, SS contacts 12' x 14' Komline, 304SS, 525 sq. ft., flexibelt disch. (2)

FILTERS PRESSURE

54 sq. ft. Funde, SS, jktd. 65 sq. ft. Artisan "Dynamic" filter/washer, SS (2) 140 sq. ft. Niagara #36-140 316 SS (2) 310 sq. ft. Niagara #310-22, 316SS (4) 600 sq. ft. U.S. Autojet, 316SS, sanit. 1000 sq. ft. U.S. Autojet #1000, 304SS 36" Skriver filter press 546 sq. is bedgeville. 38" Shriver filter press, 546 sq. ft., hydraulic 42" Shriver filter press, 777 sq. ft., hydraulic 48" Shriver filter press, 777 sq. ft., hydraulic 48" Shriver ALP recessed filter press, SS, 276 sq. ft. 48" Poly Filter Co. polypropylene filter press, 2094 sq. ft., 87 cu. ft. cake, 1983

PULVERIZERS

Mikro #4TH pulv., 125 HP, UNUSED (15)
Mikro #5MA atomizer, 5 HP
Mikro #6MA atomizer, 85
Paliman #REF8 pulv., 100 HP
Paliman #PP6 pulv., 50/75 HP
Abbe porcelain peoble milis... 36"x42", 36"x48",
42"x80", 48"x60", 60"x48" [7]
Raymond #6058 Hi-alde roller milis, dbl. whizzer (2)
Raymond #73612 Hi-alde roller mili, dbl. whizzer

NEW LIQUIDATION... CHEMICAL PLANT...GARFIELD, N.J.

(4) 31689 packed columns; 18" x 15'; 20" x 12'; 36" x 23' 4) 31083 pushed column; 36" x 40" (1) 36" x 46" Gilloh 316L 83 column, 24 traya

1800 gal. 316L 88 tank/still, 6' x 8', w/colls 1800 gal. 316L 88 tank, 5'6' x 6', horiz., w/colls

200, 100 gal.

(6) 3000 gal. verl. steel tanks, 8' x 9'

(1) industrial filter dual unit dionization system, #3639P8A. Type 268, W/(2) 316L SS columns, 316 SS exchanger and tank, controls, etc... built 1978.

ALSO - SS pumps; (9) rubber-lined tanks on scales to 7500 gal; Rotocione SS collector; blower; etc.

PERRY



Over (50) Bird & Sharpios decantors Centrifuges

Sharples P-5400 D-Canter, 316SS, Carbide tiles, late (2) Sharples P-3400 D-canter, 316SS, tiles (2) Sharples P-5000 D-canter, 316SS Sharples P-680 D-canter, 316SS, back drive Bird 12" x 30", 316SS, Decanter, 20 HP Bird 18" x 28", 316SS, Decanter (3) Bird 24" x 36" Decanter, 3048S, contour-10 Bird 24" x 38" Decanter, 3168S, contour (3) Bird 24" x 60" Decanter, steel Bird 24" x 86" Decanter, SS, 125 HP Bird 24"x 96" decanter, 304SS, carbide tiles, 1981 UNUSED (3)
Bird 32" x 50" Decanter, Monel, contour (2)
Bird 32" x 50" Decanter, 3048S, contour

DeLaval NX214-31B Decanter, 304SS, 20 HP (2) Sharples AS16V "Super," SS (5)
Sharples AS26V "Super," SS (5)
Sharples AS26V "Super," SS
DeLaval BRPX-213-30, 316SS separator/dealudgers (3)
Westfalia SAMN15037, Destudger/Separator, 316SS
Westfalia SA14-35-076 3-way separator, 316SS
Krupp 10" pusher, 316SS, 15 HP Baker-Perkins 19" pusher, 30488, 40 HP Sharples 27" D-Hydrator, 31688...spares (3) Sharpise 48" T-1600 auto-basket, 100 HP Tolhurst 48" Batchmester, rubber lined, 30 HP Sharpise 48" Tornado-Matic, SS, 25 HP Delaval 48" Mark 111, 31693 hyd. CENTRIFUGE PARTS... Sharpise, Bird, DeLaval, etc.

EVAPORATORS

2.4 sq. ft. Rodney-Hunt SS, 3 HP
21 sq. ft. Rodney-Hunt Turballim #4, SS
87 sq. ft. Rodney-Hunt, 304 SS, Turballim
100 sq. ft. Praudier, 316L SS, wiped film
600 sq. ft. Goslin-Birmingham dbl. effect, SS
854 sq. ft. Bullovsk dbl. effect, SS
1688 sq. ft. Brogs dbl. effect, SS 1688 sq. ft. Roger dbl. effect, SS Swenson 316SS cntinuous crystallizer, 9" x 14"

TANKS & VESSELS

30,000 gai., 304SS, 14' x 24', colls, 200 HP agit. (4) 20,000 gai., 304SS, 12' x 24' (2) 17,000 gai., 304SS, 11' x 24' (3 17,000 gal., 316LSS, 14'x 13', Agit. (2 12,000 gal., 316LSS, 12'x 14', Agit. (5 10,500 gal., 316L SS, 8' x 25' 10,400 gal., 304SS, 10'6" x 16', agit. 8,000 gal., 304SS, 10'6" x 12' 5,000 gal., 3048S, 9'x9', 25 HP agit. 3,500 gal., 304SS, 8'x9' 3,500 gal., 304SS, 8'x9' 3,000 gal., 304SS, 7'x 10', agit.

MIXERS, BLENDERS

3.5 cu. ft. Henschel #FM15D, 17/20 KW 11.5 cu. ft. Henschel #116JSS, 92/46 HP 13.7 cu. ft. Lodige #W600/K1200, mix/cool comb. 20 cu. ft. P-K twin shell SS 33 cu. ft. Abbe high intensity, SS, 40/20 HP 35 cu. ft. Day Naula, #NBX350, SS 43 cu. ft. Littleford #FKM2000E, SS, Choppers 43 cu. ft. Littleford #FKM2000É, SS, Chopper 52 cu. ft. Nauta 304SS mixer (2) 60 cu. ft. Nauta 304SS mixer (2) 60 cu. ft. Gemco ,TW SH, Sanit, SS 69 cu. ft. Patterson dbl. cone, SS 70 cu. ft. Day Nauta, \$S, Iktd. 75 cu. ft. Day Nauta, SS, Iktd. 75 cu. ft. Robinson 88 ribbon blender, |ktd. 98 cu. ft. Day Nauta, SS, 1981 110 cu. ft. J.H. Day, dbl. ribbon, 316SS 120 cu. ft. Ceyeland ribbon blender (5) 144 cu. ft. 304SS dbl. ribbon blender, 30 HP 169 cu. ft. Plaudler; dbl. cone, class steal litter 169 cu. ft. Plaudier; dbl. cone, glass steel jktd., vacuum 200 cu. ft. Young, ribbon, SS

NEW LIQUIDATION

MONEY...CALL FOR DETAILS!

ULTRA-MODERN 5000 TONS/DAY BEET SUGAR PROCESSING PLANT & REFINERY.. BUILT 1970, UPDATED 1983...LOCATED EASTERN CANADA, NEAR WATER... **VERY BIG SAVINGS IN TIME &**

NEW & UNUSED PROCESS EQUIP., 1982. IN OHIGINAL PACKING ... SOUTH CAROLINA, CALLI Phone (609) 267-1600

BALERS, Dispozapak #D600 balers, (2) BAG PACKER, Howe-Richardson #G-S-17 semiautomatic bagging system SS contacts BINS, 304L SS contacts, 1300 cu.ft./9720 gal. CENTRIFUGE, Bird 24"x96", 3048S. Model 15 solid bowl continuous, 10 deg. contour bowl,

Tungsten carbide tiles on conveyor, 150 HP CHLORINATION SYSTEM, Wallace & Tiernan COLUMN, 46" dla. x 15'9", 30458 CYCLONE, DuCon Model 700/175 304SS high efficiency cyclones, size 210, Type VM (8)

ORYERS, Nooter 4' x 14' rotary vac. dryer, 316L SS shell and jacket, incoloy ribbon agit. ASME 100 psl/FV int. & jacket, 100 HP

DUST COLLECTORS, EVO reverse pulse, 100 320, 640 sq. ft. (4) FURNACE, C-E Air Co. "Cor-Pak" thermo oxydizers, direct gas fired

MIXER, Air mix blender system, Koppers-Sprout Waldron #36-50, 500 cu.ft., 304SS MIXERS, Webb, 59" W x 15'L lwin shaft paddle mixers or pug mills, 304SS contacts, (2) PULVERIZERS, Mikro #4TH pulverizers, 125 HP drive, (15)

"Ac Man Anth." ... THE VARIATION AND A PROPERTY OF PLANT A ZATARIT, N.J. CHL WHEN CHANN - (@ (6919) 257 4690

(2) Munson 300 cu.ft. blenders, 104" dla., #TS-300GB, pkgd.) Munson 110 cu.ft. blender, 90" dla.,

#700/110, pkgd. (2) Munson 90 cu.ft. blenders, 80" dis #7TS90, pkgd.

(2) 400 cu.ft. Gruendler ribbon blenders (2) 215 cu.ft. Cleveland ribbon blenders (2) Eirich 10' dia, intensive mix mullers, motorized pan and mullers

(2) Komline dbl. cone blenders; 320 cu.ft. (10' dia.), 69 cu.ft. (6' dia.) 3) Gruendler hammermills, 150 HP, 1980 2) Gruendier hammermilis, 100 HP, 60 HP) Mikro #8D atomizer pulverizer, 30 HP

) Mikro #4TH pulverizer, 50 HP 2) Saw tooth brakers/crushers (2) St. Regis baggers

1) "Push-Pull" railcar unloading system (25) Flexkleen, Dustex, etc., bag type dust collectors (2) Box sifters

1) Handling system w/(2) 2000 lbs. elevators, 80' powered roller conveyor, etc. ALSO...laboratory with lab apparatus, tables, equipment, etc.; motor control center units; Gardner-Denver alr compressor; etc., etc.



Poly Filter co. 48" polypropylene filter press, (100) chambers, 2094 sq. ft., 87 cu. ft. cake, hydraulic...1983, CALLI

JUST PURCHASED!...(9) Patterson & Abbe batch ball milis & pebble mili, varous sizes... CALLI

SAVE \$ - BUY SURPLUS **FOR SALE**

USED CHEMICAL PROCESSING EQUIPMENT

Heat Exchangers, Condensers, Calandrias, Pumps, Tanks, Columns, Agitators and much more.

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South Charleston, WV 25303 Telephone: (304) 747-3223 Telex #885444



NEW LIQUIDATION BAUXITE PLANT ... ARKANSAS LOCATION

UNION CARBIDE

NEW EQUIPMENT 4" x 40" Bartlett-Snow Rotary Kiln 3" x 20" Bartlett-Snow Rotary Kiln 3" x 20" Bartlett-Snow Rotary Dryer M-400 (16") Bird Pusher Centrifuge, 316 S/S (2) 18 Bird Horizontal Screen Bowl Centrifuge, 316 S/S 12 x 15 Jeffrey Fluid Bed Dryer, S/S 60" Wide Proctor & Schwartz Belt Dryer Mariey Cooling Tower Multi-Stage Evaporator System

USED EQUIPMENT

96" x 250" Traylor Rotary Klins (8) 83" x 43" Traylor Rotary Coolers (6) 6 x 40" Allis-Chalmers Rotary Coolers (6) 8 x 16" Traylor Ball Mills, 450 H.P. (4) Belt Conveyor-up to 54" wide, up to 500" long 10 x 24" Allis-Chalmers Jaw Crusher Size 322 Allis-Chalmers Hydro-Cone Crusher 250 TPH Pennsylvania Hammermilis (4 9 x 30° Chatanooga Paddle Mixer (2) Misc. Pumps, Compressors, Screens, Tanks, Dust Collectors, Feeders and Conveyors.

SEE FULL PAGE AD NEXT WEEK

Federal Equipment Company 8200 Bessemer Avenue Cleveland, Ohio 44127 • 216-271-3500 Tanks: 250-1400 Gal. storage & mixing, 8/8 & fiberglase 5000 Gal. 3/4 8/8 storage tank, vertical, closed, dished hds. (2) Richmond 3000 Gal. 8/8 Reactors, 60/40 PSI, 50 HP 2-8pd. Richmond 3000 Gal. 8/8 Reactor, 60/40 PSI, 20 HP. (3) Pfaudler 30 Gal. 8/8 Reactors, 60/90 PSI, 1½ HP XP V/S. Hercules 500 Sq. FL. "Roto-Jef" Filter, 316 8/8, 60 PSI. Jacobson 805F-11 "Universal" Hammer Mill, 100 HP. (2) Entoleter Type EIM "Centrimil", 48" Dis., 316 8/8, 150 HP. Simpson "Rotex" model 861 Sifter, 316 5/3, single deck. Sampson "-Kolsk" model on 1 attes, 110 s/s, single deck. Fitzmill, 316 8/s, No. DKAS012, 20 HP. Hoto-Filte Screw Dryer, 16" Die x 20' L., C/S, Jkt. trough. Chromatox 200 KW Hot Oil Unit (ALL XP) iterling 12 KW Hot Oil Unit.

Sterling 12 KW Hol Oil Unit:
Hockmayer 50/25 HP High Speed Disperser 8/8, XP#2 Spd.
(3) Susameyer model 8R8 8and Mills, 30 HP XP.
Morehouse-Cowiss 12-30 & 10-25 8and Mills, 40 & 25 HP XP.
Patterson Steel Ball Mills, 6'z#' & 6'z5' and other sizes.
Abbe 4/zx13' Comtinuous 8teel Ball Mill, 60 HP.
Patterson & Abbe Ceramic-Lined Pabble Mills from 15'z2'"+up.
Reliable 6"x12" Two Roll Mill, 5 HP. Reliable 6"x12" Two Roll Mill, 5 HP.

110 Cu, Ft, CyS heavy-duty ribbon blender, jkt. 20 HP.

(2) Letach 6/8 santtary ribbon blenders, 12.28 Cu, Ft, 2 HP.

J.H. Day "Nauta" Blender, 21, Cu, Ft, 316 8/5, MBX

Votator. (2) 4"x46" L. Tubes, 318 8/8, 15 HP.

Dorr-Oliver "Web-Trol" 6"x5" Rot. Vac. Filter, 316 8/8.

Grandall 5-Gel. subaurtace weigh-type filler, 8/5, model F-2.

Turba-Film 1.13 8q. Ft. Leb eveporator, 318 8/8, 1 HP comptete.

Nichols/Niro 10 ft. Die. Spray Gryer, 128 #/Hr., all 8/8.

Baker-Perkins & Readco dbl. arm misers: 2-Vsto350 gal., C/S, 8/6

Heat Exchanger 459 sq. tt., 304 S/8, 75/15 pel.

(2) Rietz prebreaker, UNUSED Model PB-10, C/S, 20 HP

(4) Rietz extructor, UNUSED Model RE-12, C/S, 10 HP

A-1 CHEMICAL EQUIPMENT CO. 59 EAST 21st STREET CHICAGO, IL 60616 (312) 842-2200



FREE-CALL FOR OUR NEW WINTER CATALOG AND SAVE !!!

BLENDERS & MIXERS

-30 & 150 cu. ft. Dbl. Cone Blenders -Baker Perkins 150 gal. C/S jktd. vac. ilus -Devine 100 cu. it. Dbl. Cone Blender, C/S -J.H. Day 40 cu. ft. CS Ribban Blender (3) -J.H. Day 40 cu. ft. CS Ribbon Blender (3)
-Nauta Mixer 70 cu. ft. SS 10HP (2)
-Patterson Kelley 1 cu. ft. Twin Shell SS 500 lb. Dens.
-Patterson Kelley 30 cu. ft. Twin Shell Blender
-Patterson Kelley 40 cu. ft. Twin Shell Blender
-Patterson Kelley 1600 cu. ft. C/S Blender 75HP
-Patterson Kelley 1600 cu. ft. C/S Blender 75HP
-Patterson Kelley 40, SS Twin Shell/liq. solids
-Paul O. Abbe 90 cu. ft. SS/ssnil. jktd. vac. Blender 50HP
-Readco Sigma Blede Mixer 10 gel. SS Dual Level (Like New)

-Ross 10 get. Planetary Mixer SS -Ross 15 get. SS jiktd mixtruder 7 ½ HP mdl. AMK 15 -Strong-Scott 200 cu. It. C/S Ribbon Blender

FILTERS

-Bird (Pannavis) Filler SS, 12"W x 17"L -Bird (Pannavis) Filler SS, 12: W x 171.
-Elmco 4'x 12' Vac. Belt Filler 318 SS
-Enzinger Leaf Filler SS 360 sq. ft.
-Evbex SS Rotary Fillers 6 x 6
-Funda Filler 4' dia., SS, ktd. wy20HP Orive -Funda Finter 4 on., 55, jnu., vyzon Fundo -Hercules Filter 500 sq. ft. 316 S8 -Industrial Filter 100 sq. ft. Type 122 UD 21 MDL OMD -Shriver 36" ALP 316 S9, 41, 48 Cham (2) -Sparry 42" Plypro Filter Press 48 Chambers -Star SS Filter Presses 18" (5) -US Autojet Filter SS 50 & 750 sq. ft.

DRYERS -Abbs 20 cu. ft. SS Conical Vac. Dryer
-Aeromatic Fluid Bed Dryer Lab. MOL-15/100 ST
-Bowen Spray Dryers 7½* & 5* SS
-Fitzpatrick Fluid Bed Dryer SS Lab MOL. #75
-Qemco Dbi. Cone vac Dryer 10 cu. ft. SS
-Jeffery Fluid Bed Dryers 2* 220* SS (2)
-Patterson Kelley Twin Shell 183 cu. 11. vac. processor
-Patterson Kelley Twin Shell vac. Dryer 75 cu. ft.
-Patterson Kelley Twin Shell vac. Dryer 75 cu. ft.
-Patudler Conical vac. Dryer GJL 72 cu. ft. Compl. sys. - Flandard Hersey 4'x30' Rotary Dryer SS
- Stokes 5'x30' Rotary Vac. Dryer, ktd., SS
- Stokes 5'x30' Rotary Vac. Dryer, ktd., SS
- Stokes Vac. Shelf Dryers 48.9 aq. ft. (7)
- Strong Scott Rotary Vac. Dryer SS 3'x 12' Solideire

THIS IS ONLY A PARTIAL LISTING

NEW ARRIVALS -Sweco Separator 80" CS single deck (5)
-Kady Dissolver 20 HP vari epeed
-Abbe Eng. Lab Dispersal 10 gal. SS jk.td
-Votator SS lab
-Chemetron Heat Exchanger Scrape Wall 9 sq. iL

Chromolox Hot Oil Reaters 20 & 40 KW & 80 K.W. complete

Mateer Filler Model No. 33A Auger Type, SS/sani

Aujociave 200 gai. SS 115/350 Artisan 1 ao, fi, wioed lifm evaporator BS complete system Alicro Atomizer SS SHP XP Mci. # SMA Rosa 2 gai Planetery Nixer Model # 130 ELS/B |kt bowl

PAINT PLANT LIQUIDATIONS -Abbs 12"x18" steel, littd., lab bell mill
-Abbs 12"x18" steel, littd., lab bell mill
-10HP, Dissolver, veri speed
-5HP, Dissolver, veri speed
-3HP, Hill Homo Mixer
-Kady Mill, 100 gel, se, littd., 30HP
-Ross 3 Roll Mill, lab, 44" x 10", 4"x6"
-Relix disintegrator 53 5HP
-Schold Shot Mill 304 95 [ktd. 100HP (2)

CENTRIFUGES -Bird Centrifuge C/S 40"x60" Solid Bowl
-Bird Centrifuge C/S 18"x26" Centour Bowl
-Bird 36"x50" 34755 Centour Bowl
-Sharptos 12" 85 Lab Medel/Brighton Lab
-Sharptos P-600/3000/5000 Decenter 85
-Sharptos Centrifuge 12" S5 edit bowl w/skimmer (2)
-Tolhurst Centrifuge 25" S5 perf. basket

GRINDERS & MILLS

-Alpine Sieve Model # A-32-100 LS
-Cumberland Grinder Size 14
-Entoleter Complect Milh, Type EliM, SS, 30HP
-Fitzmill Model # D-5/DSAC/12, 30 HP SS
-Greerco Colloid Mill, 3HP 8 5HP
-Micro Putverizer 4 TH (3)
-Patterson Ball Mill 3"x4" kt.
-Rotex Screener 2"x4"/1"x3"
-Simpson Mueller 6"x5" size 2 YD mixer 20HP
-Sweco Separator 48"/30"/24"/18"SS

REACTORS

-4000 gal.318 SS reactor 90/500 psi hali pipe jacket (4)
Norwak 3000 & 750 gal. SS reactor dimple jktd FV/50
Plaudler 9200 gal G/L Reactor 90/50 psi Unusad
Downington 1500 gal. Monel Clad reactor 55/70 psi
-13,500 gal. 304 Etc Dim., Jktd, Reactor, 30/100 psi
Plaudler 500 gal. G/L jktd. vac. reactor

MATER 34B HiSpeed Auger COZZOLI LF840 8 Paton Automatic SS PNEUMATIC 30, 24, 16 & 8 Head Rotary SS MRM, HORIX & KIEFER 30, 24, 16, 12 & 5 Head Rotary ELQIN & HOPE 2, 4 & 5 Piston

MATEER 31A, 33A & 37 A Auger

PERRY Accord
BURSA F3 & BOCK Filers

CAPPERS

ARENCO (AB), KALIX & COTUPLAS Tube FILAMATIC DAB, AB4 mg2 & ZANASI Capada Filers

NALBACH High Speed Power Filing Line

WORLD SUPERCH COMPACA 7 & 14 DEMOSON, LABELAIRE, FASSON, NEW JERSEY, STANDARD KNAPP BURT & MPIM

CAPEM DBF, DBF, C4F, C2F & SIF
PNEUMATIC SCALE 4 & 6 Need Preumaceppers
RESRIA U40, U41, S30, S20, LC, FA & SA
PERISTOPPER, WEST, PMC & KINSLEY
CANCO, CONTINIENTAL & ANCELUS Can Seumos
RESNIA PW Rectangular Spice Filment Applicator

MISCELLANEOUS PACKAGING

BARTELT IM? Packager DOBOY, SCANDIA, HUDSON SHARP, WHAP KING,ROTO WRAP & CIRCLE

WRAP & CIRCLE
HASBIA, KLOCKNER & WRAP ADE SIND PACKRET
HAYSBEN "Ultima," PACKAGË & TRIANGEE FFS
JONES, BYANS, CECO & SUPERIOR CATORIES
ECORE, ILLUMATRONÇ & METRAMATIG High Speed

Checkweighers
U.S. ROTTLERS Sankeir, MoBRADY, PNEUMACLEAN S
STANDARD METAL, J1600
ADD.IN, MAB, MEYER & ISLAND Uniocrambions
WELDOTRON, MAHAFFERY & SENTINEL SYRIK Pack.

PADLOCKER, ABO & ELLETT CBM SORIOT

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SWEGO, GREAT WESTERN, ROSS, BAUERMEISTER,

ALIS CHALLERS & ROTEX SITURE

TEKNIKA, SKARPLES & RITERRATIONAL CANTRUDES

TEKNIKA, SKARPLES & RITERRATIONAL CANTRUDES

TYPPATRICK FA150 SS FLIS BOD DYN

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December 29, 1986

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POLYPROPYLENE RESIN Marubeni America 1600 bga {88624 lba} (Ever Golden) Tokyo, 11/14. 1600 bgs (88624 lba) (Ever Laurel) Tokyo, 11/19. POLYVINYL ALCOHOL Mitsubishi Inti 227 bgs (10119 lba) (Regina Maersh) Kobe, 11/16 Perry Chemical 770 bgs (38847 lbs) (Ever Golden) Keelung, 11/14.

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(Zim Hong Kong) Osaka, 11/19.
POTASSIUM SULFOGUAIACOLATE Phone Poulenc 12

(Strathconon) Bremerhaven, 11/25. Rohde & Liesenfeld 20 cm (1235 lbs) (Britta Thien)

Hamburg, 11/26.
PVC Ferrero 358 pkg (9149 lbe) (Alva Maersk) Leghorn,

11/19. PVC COMPOUND POWDER Coburn 22 bin (45194 lbs)

(Ever Summit) Fos. 11/19. PYROGALLIC ACID POWDER 20 dms (2425 lbs) (Ming

Universe) Kobe, 11/22.

OUINIDINE SULFATE HYDROCHLORIDE Lassen Inti Fwdrs 31 dms (4544 lbs) (Dart Atlantics) Bremerhaven,

dms (4683 lbs) (Ming Universe) Kobs. 11/22. RED PHOSPHORUS Hummel Chemical 100 dms (12125 lbs) (Ever Laurel) Osaka, 11/19.

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IMPORTS

Continued from Page 33 PARAFFIN WAX Diana 144 bxs (5397 lbs) (Koln Express) Hamburg, 11/18. PARAFORMALDEHYDE T R America Chemicals 22 bks

(45640 lbs) (Sea Land Adventur) Algebras, 11/20. Troy Chemical 842 bgs (43999 lbs) (Ever Gather) Keelung, 11/25 PATCHOULI OrL 258 dms (12163 ibs) (Ever Golden) Sin-

gapore, 11/14
PATCHOULI OIL CRUDE 150 dms (73010 lbs) (Ever Golden) Singapore, 11/14.
PETTITGRAIN TAILS J Manheimer 14 dms (5628 lbs)

POTASSIUM SULFOGUAIACOLATE Rhone Poulenc 12
pkg (1400 lbs) (Atlantic Service) LeHawre, 11/12
PROPENYL CYANOACETATE Bemo Shpg 5 dms (2480 lbs) (Ming Universe) Kobe, 11/22.
PROPYLENE DICHLORIDE DISTILLED Leschaco 1 con (45018 lbs) (Ever guard) Rollerdam, 11/17
PROPYLENE DICHLORIDE Leschaco 1 con (46297 lbs) (Ever Going) Antwerp, 11/23
PSEUDOEPHEDRINE Leschaco 12 dnis (767 lbs) (Strathconon) Bramerhavan, 11/25 (Ove Skou) Rio D Janeiro, 11/24. PETROLEUM RESIN ARKON & SUPER ES Milrans 819 mix (36680 lbs) (Ming Universe) Kobe, 11/22.
PETROLEUM RESIN ARKON P 125 Mitrans 640 bgs

(37037 lbs) (Ming Universe) Kobe, 11/22. Mitrans, 1280 bgs (74074 lbs) (Ming Universe) Kobe.

Milrans 640 bgs (37037 lbs) (Ming Universe) Kobe. Mitrans 640 bgs (37037 lbs) (Ming Universe) Kobe,

Mitrans 640 bgs (37037 lbs) (Ming Universe) Kobe.

Milaul 6611 bgs (338062 lbs) (Ming Universe) Kobe,

PHENYLAGETIC ACID Inter Martime Fwdg 190 dms (22703 lbs) (Siefan Starzyński) LeHavre, 11/26. PHOSPHORIC ACID 1 bks (2265996 lbs) (Sielt Avenir)

PHOSPHORUS PENTACHLORIDE 360 pkg (38825 lbs) (Koln Express) Bremerhaven, 11/18
POLYACRYLAMIDE GRANULE Mitsubishi Chemical Ind 600 bgs (30558 lbs) (Ming Universe) Kobe, 11/22.
POLYACRYLATE Mirans 840 bgs (29983 lbs) (Ming Universe) Kobe, 11/22.
POLYACRYLATE Mirans 840 bgs (29983 lbs) (Ming Universe) Kobe, 11/22.
POLYACRYLATE Mirans 840 bgs (29983 lbs) (Ming Universe) Kobe, 11/22.
RED PHOSPHORUS Huminel Chemical 100 dms (12125 lbs) (Ever Laurel) Osaka, 11/19.

vierse) Kobe, 11/22 (bs)
POLYBUTADIENE STYRENE Lubrizol 20 ph (23369 lbs)
S.T. (California Star) LeHovre, 11/22.
POLYETHYLENE M & S 1 ort (1047 tbs) (Sea Land DavelPOLYETHYLENE M & S 1 ort (1047 tbs) (Sea Land DavelSENNA LEAVES Militzer & Muench 180 bgs (18651 I

open Rotterdam, 11/23
POLYPROPYLENE A One Packaging Products 35 pit (38790 lbs) (California Star) Hamburg, 11/22.

Situation on Rotterdam, 11/25.

Situation on Rotterdam, 11/26.

SILICONE OIL Inter Meritime Fwdg 29 pkg (8624 lbs) (Regina Maersk) Tokyo, 11/16. SILICONE TETRACHLORIDE Miliaul 1 dms (77 lbs) (Ever

Gather) Tokyo, 11/25. SODIUM BICARBONATE Prescott 700 bgs (38889 lbs) (Regina Maersk) Koba, 11/16. SODIUM BICARBONATE N Witues Products 1583 pkg

(121703 lbs) (Ever Guard) Antwerp, 11/17 SODIUM BISULFITE General Plastic & Chemical 350 bgs (39639 lbs) (Heide) Rotterdam, 11/19. SODIUM CARBOXY METHYL CELLULOSE Robeco

Chemicals 20 bxs (0 lbs) (Ever Guard) Rotterdam, 11/19.
SODIUM CASEINATE De Zaan 800 bgs (44771 lbs) (Ever Going) Rotterdam, 11/23. SODIUM DICHLOROISOCYANURATE 250 dms (78814

bs) (Ever Gether) Osaka, 11/25.

SODIUM FERROCYANIDE A M Sea & Air Service 800 bgs (45238 lbs) (Ever Geing) Felirstowe, 11/23.

SODIUM FLUORIDE CRYSTALLINE Trans World Shpg 700 bgs (38973 lbs) (Ever Gether) Osaka, 11/25.

SODIUM FORMALDEHYDE SULFOXYLATE Stute Intil

440 dms (78565 lbs) (Ever Laurel) Kaohslung, 11/ SODIUM HYPOPHOSPHITE MONOHYDRATE 124 drns

(41204 lbs) (Ever Sumnit) Fos. 11/19. SODIUM METAPERIODATE SMP 2 dms (229 lbs) (Dart Americana) Felixstowe, 11/20 SODIUM METHOXIDE POWDER Kay Fries 152 dnis

(38457 lbs) (Ever Guard) Hamburg. 11/17
SODIUM NITRITE Browning Chemical 360 bgs (41050 lbs) (Helde) Rotlerdam, 11/19
SODIUM PERBORATE FMC 816 bgs (93698 lbs) (Alva Maersk) Valencia, 11/19.

1632 bgs (187395 lbs) (Alva Maersk) Valencia. 11/19. FMC 640 bgs (37143 lbs) (Alva Maersk) Valencia. 11/ Degussa 420 bgs (42463 lbs) (Koln Express) Antwerp.

SODIUM PERSUL FATE Mitsubishi Inti 640 bgs (35697 bs) (Ming Universe) Yokohama, 11/22. SODIUM PHOSPHATE DIBASIC JGR Resources 680 bgs (38378 lbs) (Zim Hong Kong) Osaka, 11/19 SODIUM SACCHARIN 450 dms (47399 lbs) (Zim Hong

Kong) Osake, 11/19. SODIUM SULFHYDRATE FLAKE UTC 360 bgs (39961

SODIUM SULFHYDRATE FLAKE UTC 380 bgs (39961 lbs) (Galifornia Siar) Aniwerp. 11/22.

SODIUM TRIPOLYPHOSPHATE Browning Chemical 1700 bgs (92271 lbs) (Helde) Hamburg. 11/19.

560 bbg (867906 lbs) (Strathconon) Rotterdam. 11/25.

SODIUM TRIPOLYPHOSPHATE Browning Chemical 850 bgs (45161 lbs) (Britta Thien) Hamburg. 11/26.

Browning Chemical 800 bgs (83422 lbs) (Britta Thien) Hamburg. 11/26.

Browning Chemical 1700 bgs (92271 lbsv) (Britta Thien) Hamburg. 11/26.

SORBITOL E M Ind 80 pil (87855 lbs) (Atlantic Service) Bremerhaven. 11/12.

Bremernaven, 11/12. SPANISH PAPRIKA Savino Del Bene 100 bgs (11067 ibs)

(Colombo) Valencia, 11/24.

STAR ANISE House of Lawrence 50 ctn (0 lbs) (Ever Gather) Hong Kong, 11/25.

STARCH 612 bgs (31032 lbs) (Sea Land Developer) Rotlerdam, 11/23.
SULFAMETHOXAZOLE Shionogi 154 dms (18673 lbs)
(Recins Maerski Kobe, 11/16.
SULFURIC ACID H P Korn 2 cs (331 lbs) (Koin Express)

Hamburg, 11/18. LFURIC CHLORIDE ICT Consultants 1 trik (13960 lbs) TERTIARY DODECYL MERCAPTAN 2 con (84039 lbs)

(Ever Summit) Fos, 11/19. TETRAPOTASSIUM 380 bgs (39961 lbs) (Strailsconon) Rotterdam, 11/25. THIOSALICYLIC ACID Penson 2 dms (251 lbs) (Ever

Gather) Keelung, 11/25.

THYME CGM French Line 2000 bgs (44092 lbs) (Aliantic Concert) LeHavre, 11/11.

Louis Furth 270 sks (29762 lbs) (Colombo) Valencia.

THYME LEAVES Louis Furth 1086 bgs (70548 lbs) (Inde-THYME LEAVES Louis Purth 1000 bgs (10046 lbs) (independence) Valencia, 11/18.
TIN OXIDE Alba Fwdg 10 dms (5357 lbs) (Ming Universe) Yokohama, 11/22
TITANIUM DIBORIDE GTE Products 1 cs (1294 lbs) (At-

lantic Concert) Liverpool, 11/11. Blue Beil Chemical 880 bgs (44137 lbs) (Sea Land Ad-Perry Chemical 770 bgs (38847 lbs) (Ever Golden)
Keelung, 11/14.

POLYVINYL BUTYRAL INTERLAYER Schenkers Intl Fwdrs 236 ft/(83984 lbs) (Regina Maersk) Kobe, 11/18.

POPPY SEED Schiff Food Products 1240 bgs (62002 lbs) (Hedel) Rotterdam, 11/19.

POTASSIUM CARBONATE Kay Fres 400 bgs (41455 lbs) (Ever Guard) Antwerp, 11/17

POTASSIUM CHLORATE T R America Chemicals 320 dms (94534 lbs) (Sea Land Developer) Rotterdam, 11/23.

POTASSIUM CHLORIDE POWDER Abbott Chemicals 800 bgs (44092 lbs) (Sea Land Developer) Bremerhaven, 11/23.

POTASSIUM PROKIDE Mallinckrodt 336 dms (39185 lbs) (Dart Americans) Bremerhaven, 11/20.

POTASSIUM PERCHLORATE Nu Tech Chemical Ind 150 dms (41867 lbs) (Atlantic Concert) Golhenburg, 11/1.

venturi Algediras, 11/20
Dorsett & Jackson 880 bgs (44137 lbs) (Sea Land Adventuri Algediras, 11/20,
N L Ind 2400 bgs (124472 lbs) (Koin Express) Antworp.

3200 bgs (165964 lbs) (Strathconon) Rotterdain, 11/

SCM 4400 bgs (227264 lbs) (Sea Land Developer) Rojtordam, 11/23 4400 liga (227264 lbs) (Sea Land Developer) Rotter-

dain, 11/26.
Superior Materials 2400 bgs (120372 lbs) (Sea Land Adventur) Algeorias, 11/20.
TITANIUM DIOXIDE A X Leschaco 4560 bgs (236800 lbs) (Koln Express) Antwerp, 11/18.
Kemira 640 bgs (33345 lbs) (Stefan Starzynski) Bramer, 11/26.

haven, 11/26 Kemira 779 mix (39590 lbs) (Strathconon) Bramer Remira 779 mix (39590 lbs) (Strainconon) Bremer. Haven, 11/25. Ore & Chemical 160 bgs (9085 lbs) (Stefan Starzynski) Rotterdam, 11/26. Hoxley Raw Material 760 bgs (39590 lbs) (Stefan Starzynski) Bremerhaven, 11/26 Keinira 760 bgs (39590 lbs) (Stefan Sterzynski) Bremer-

N L Ind 3200 bys (163952 lbs) (Atlantic Concert)

Gothonburg, 11/11. Rhono Poulenc 1600 bgs (83687 lbs) (Strathconon) N L lord 900 bays (46230 lbs) (Ever Guard) Antwerp. 2700 bgs (138693 lbs) (Sea Land Voyager) Rotterdam,

11/26.

N L Ind 1600 bgs (82540 lbs) (Stefan Starzynski) Bramerhoven, 11/26.

TOBIAS ACID Silvey Shpg 300 bgs (16733 lbs) (Ever Laurel) Hong Kong, 11/19

TOLONATE HDT 90 Rhone Poulenc 700 dms (34105 lbs) (Indepondence) Marseille, 11/18.

TORULA YEAST FOOD GRADE Nestle 720 bgs (40124 lbs) (Fieldo) Rottordam, 11/19.

TRICHLORO ISOCYANURIC ACID 625 dms (197036 lbs) (Ever Lauren) Osaka, 11/19.

(Ever Lauren) Osaka, 11/19.
750 dms (236443 lbs) (Ming Universe) Kobe, 11/22.
375 dms (18222 lbs) (Ever Gather) Osaka, 11/25.
RIETHANOLAMINE 73 dms (39912 lbs) (Koln Express)
Antwerp, 11/18

Antwerp, 11/18
TRIOCTYL PHOSPHATE Tolpaz Tol 40 dms (17196 bs) (Dari Americana) Felixstowe, 11/20. TRIPHENYL PHOSPHATE Monsanto 640 bgs (36773 bs) (Strathconon) Felixstowe, 11/25.

ULTRAMARINE BLUE Elco Shpg 8 pll (25106 lbs) (Helde) Rotterdam, 11/19. ULTRAMARINE PIGMENT Sico Shpg 18 plt (0 lbs) (Hede)

Rollerdam, 11/19.
ULTRAMARINE PIGMENT Whittaker Clark & Daniels 720 bgs (41310 lbs) (Atlantic Concert) Liverpool, 11/11.
768 mix (-11804 lbs) (Dart Americana) Feixstowe, 11/20. VANILLA BEANS Elari Chemical 200 cm (11023 bs)(Zim

Hong Kong Hong Kong, 11/19
VINYL PYRROLIDONE 1 trik (39815 lbs) (Britte Thien) Hamburg, 11/26.
WOOL GREASE Avi Intl 100 dms (45763 lbs) (Helde)

WOOL GREASE Avi Intl 100 dms (45763 lbs) (neide)
Rotterdam, 11/19.
Containership Agency 67 dms (31105 lbs) (Callomia
Star) Felixstowe, 11/22
Joseph H Lowenstein & Sons 74 dms (33309 lbs) (Callornia Star) Felixstowe, 11/22
XYLENOL 1 (nk (43982 lbs) (Heide) Hamburg, 11/19
XYLIDINE Mobay Chamical 1 dms (489 lbs) (Strathconen)
Rotterdam, 11/25

Rotterdam, 11/25 ZINC PYRITHIONE P & G Mig 200 dms (56923 lbs) (Cal-

ZINC SULFATE MONOHYDRATE TECHN United Mineral & Chernical 1050 bgs (79260 lbs) (Britte Thier) Rol-

ZINC SULPHIDE USA Optonix 88 dms (26001 lbs) (Rogina Minersk) Tokyo, 11/16. ZIRCONIUM CARBONATE PASTE F B vandegrit 180 dms (41667 lbs) (California Star) Felixslows, 11/22

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Gov't Rules Force Change

It's a question of survival for many products in the US organic solvents market — and survival means basically one thing: meeting standards set by the Environmental Protection Agency and other Federal as well as state agencies.

The vital role that government regulations play in the solvents industry becomes apparent in a new report from Frost & Sullivan. Inc., New York, which forecasts a total market value of \$2.5 billion in 1990 - impacted greatly by government restrictions on use. Growth areas in this market include, for

manufacture of polyesters. They have relatively low toxicity and volatility.

Marketing Reporter.

important chemical news first.

anything you want to sell.

Fluorocarbon 113, another example, is lations.

Required

Redding

used in dry cleaning and also for cleaning sensitive equipment such as electronic components. The compound has low toxicity, is non-flammable and non-explosive and is projected to grow 7.3 percent a year. By contrast, consumption of hydrocarbons, high in both toxicity and volatility, will show a marked decline.

State laws and local regulations, such as the emissions rules in Los Angeles County, as well as Federal laws like the Clean Air Act of 1970 and the Toxic Substances Control act of 1976, determine which solvents will experience market growth and which will decline.

The F&S report details and analyzes specific regulations and policies, the reasons behind them, and how they affect markets.

By far the largest end use for industrial solvents is in paints and coatings. This cateexample, glycols used in antifreeze and the gory alone accounts for one-third of total market volume in the US. This is also the category most affected by government regu-

Cooper Unit Sells Reagents

Cooper Development Company announced last week that its affiliate Cooper Technicon, Inc., has sold its blood bank reagents and immunochemicals business units to Organon Teknika, a subsidiary of Akzo Pharma B.V., the health care division of Akzo N.V. of the Netherlands, for cash.

"The divestiture of these business will allow Cooper Technicon to focus on its core automated medical diagnostic business and will enable it to reduce outstanding indebtedness," said John L. Edwards, president of Cooper Development

Organon Teknika, with headquarters in Turnhout, Belgium produces diagnostics for blood banks, clinical and hemostasis laboratories, nephrology products as well as neuromuscular blockers. Their annual sales will total approximately \$1 billion in 1986.

Cooper Technicon, formed in August 1986 from the combination of CooperBiomedical and Technicon Instruments Corp., is headquartered in Tarrytown, N.Y. The company develops, manufactures and markets automated medical diagnostic systems and reagents as well as similar product lines for ndustrial use.

Cooper Development Company develops, acquires and invests in businesses involve din emerging medical technologies.

Vaccine Shortage

Continued from Page 7

top-ranking official of your department and by a drug-industry funded group-has already wasted public health dollars and will result in more waste when high-risk young people who were denied the vaccine incur nedical expenses for treatment of flu and flu onsequences." Dr. Wolfe wrote.

"Paradoxically," the letter continued, "the Federal government has supported immunization of people wo do not need it and, due

to a limited supply of the vaccine, thereby denied it to people who do."
As a result, Dr. Wolfe said he fears the

epidemic could turn out to be worse than it might have been,

A spokesman for Dr. Windom sald the text of Windom's remarks at the news confefence correctly stated that the vaccine was recommended "for high-risk children and young adults under the age of 35." He said Dr. Windom would not respond to Public Citizen until he has seen Dr. Wolfe's letter.

Shell Is Latest

Continued from Page 7

part of OSHA's chemical industry special emphasis program. About 2,800 workers are employed at the refinery and chemical manufacturing complex.

Shell said the problem apparently resulted from a difference in interpretation over what job-safety data the company is required to report to Federal officials.

"In 32 previous visits over more than ten years, OSHA has never challenged our (Deer Park complex) record-keeping procedures," a company spokesman noted. He also asserted that the 61 citations are unrelated to worker health and safety.

A willful violation is defined by OSHA as one in which an employer either knew that what was being done constituted a violation or was aware that a hazardous condition existed and made no reasonable effort to climinate it; a serious violation as one where there is substantial probability that death or serious physical harm could result, and that the employer knew or should have know of the

Lilly to Acquire

Lilly Industrial Coatings has agreed in principle to acquire London Laboratories imited for approximately \$8.5 million London Labs, based in Woodbridge, Conn., is a supplier of silver plating chemicals, with sales in excess of \$10 million.

CHEMICAL MARKETING REPORTER

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Total	

*Millions of pounds annually of nameplate capacity. Some capacity figures are overstated as figures for most producers include production capabilities for other alkylphenois, such as dodecylphenol. Borg-Warner ceased production of dodecylphenol in the first quarter of 1986. Schenectady expanded its capacity to produce other alkylphenois in 1986. Profile last published 12/12/83; this revision, 12/29/86.

1985: 185 million pounds; 1986: 190 million pounds; 1990: 215 million

Historical (1976-1985): 5 percent per year; future: 3 percent per year through

PRICE

Historical (1952-1986): High, 50c. per pound, tanks, freight allowed; low, 141/2c. per pound, same basis. Current: 35c. to 40c. per pound, same basis.

USES

Surfactants (primarily industrial and institutional), 70 percent; rubber and plastic antioxidants, 20 percent; other, including lube oil additives, 10 percent.

STRENGTH

Demand for nonyiphenol ethoxylate surfactants is strong, reflecting increasing cleaner consumption by service-oriented industries such as restaurants and hotels. Low nonylphenol costs assure that linear alcohol ethoxylates will not encroach upon this market.

Industry oversupply has meant that producers have had to pass lower feedstock cost savings through to consumers: prices fell 20 percent over the past

OUTLOOK

The current consolidation and rationalization in the ethoxylates business should lead to better margins for nonylphenol producers. Nonylphenol ethoxylates have been banned in Switzerland and are under scrutlny in West Germany because of biodegradability concerns; for the long-term, US producers are apprehensive about similar actions here.

Programs for Engineers

Competition in the chemical industry demands that engineers solve complex problems quickly. Although many engineers have powerful microcomputers to assist them, the time saved is not as great as it could be because of a severe lack of ready-to-use programs. This volume* seeks to remedy the situation by offering a step-by-step analysis of dozens of practical programs that can be applied as is, or modified, to handle individual situations.

The programs offered are designed to solve problems across a broad spectrum from thermodynamics, heat transfer and pollution control to mathematics, physical properties of chemicals and economics. A completed sample run of each program shows how it works and many of the programs come with essential data, saving time in searching obscure sources for

*BASIC PROGRAMS FOR CHEMICAL ENGINEERS. By Donnis Wright, Cloth. 340 pages. 6 X 10 inches. Van Nostrand Reinhold, 115 Fifth Avenue, New York, N.Y. 10003, \$32,95

Japanese Technology

This series of studies* on Japanese technology assesses Japanese research and development in four of today's most visible high-technology areas: computer science, opto- and microelectronics, mechatronics (a term used by the Japanese to describe the union of mechanical and electronic engineering necessary to produce the next generation of machines, robots and the like), and biotechnology.

The evaluations were conducted by panels of leading US scientists — chosen from academia, government and industry — who are actively involved in research in their area of expertise. The main focus of the assessments is on the current status and long-term direction and emphasis of Japanese research and development. Other aspects covered include evaluation of the state of the art, identification of key Japanese researchers, R&D organizations and resources and comparative US efforts.

The volume is an account of work sponsored by the Japanese Technology Evaluation Program (JTECH) which is operated for the Federal government by Science Applications International Corporation (SAIC) to provide definitive technical assessments of emerging Japanese thrusts in selected high technology areas.

*JAPANESE TECHNOLOGY ASSESSMENT, By J. Albus et al for Science Applications International Corporation, La Jolla, Calif. Cloth. 6 X 915 inches. 597 pages. Noves Publications, Mill Road at Grand

Industrial Chemistry Survey

Emphasizing business aspects rather than engineering, this volume* seeks to fill a void in the otherwise abundant literature on this subject. The introduction describes all of the Important areas of the chemical industry from an economic perspective. After an overview of the leading chemicals and chemical companies, the book discusses each of the industry's major areas in detail.

Generally these are chemical products, chosen for inclusion based on their value-added to the chemical industry's contribution to the Gross National Product, as listed in the Annual Survey of Manufacturers, which categorizes the nation's industries by Standard Industrial Code (SIC) numbers.

Eighty-four percent of the industries listed under Chemicals and Allied Products (SIC 28) are covered. Also, other industries in which chemistry plays a crucial role are described, including Paper and Allied Products (SIC 26), Petroleum Refining (SIC 29), and Rubber and Miscellaneous Plastic Products (SIC 30).

*SURVEY OF INDUSTRIAL CHEMISTRY, By Philip J. Chemey, Cloth, 6 ½ X 9 ½ Inches, 422 pages, John Wiley & Sons, Inc., One Wiley Drive, Somerset, N.J. 08873, \$45.00.

CHEMICAL PROFILE BOOKSHELF / JOBS & PEOPLE {{{}}}} JOBS & PEOPLE

r. Wayne Godwin, who has been named presi-lent of the Fibers Division and executive viceent of BASF Corporation, effective April 1,

LONNIE U. HAYNES JR. has been named an account supervisor for coatings and adhesives sales in the technical marketing group of Hercules Incorporated... THOMAS J. MALAFRONTE has been appointed business manager for surfactants and specialty nomers in the process chemicals department of American Cyanamid Company... CHARLES W. EMMERICH has been named general manager of Petro H-R in Caracas, enezuela, by H-R International.

KOOK-JIN BAE has been appointed technical service representative for polymer addi-

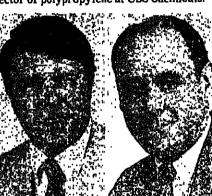


Aristech Chemicals Names Executive Officers

Aristech Chemical Corporation, formerly the USS Chemicals Division of USX Corporation, has appointed Charles W. Hamilton senior vice-president of chemicals and specialty products and James J. Driscoll Jr. vice-presi-

Mr. Hamilton will be responsible for production, research and development, and worldwide marketing and sales of chemicals and specialties.

Mr. Driscoll was previously managing director of polypropylene at USS Chemicals.



tives in the Argus Division of Witeo Corporation... STEVEN N. GABELMAN has been named marketing manager of flexible slabstock urethane at Union Carbide Corporation... HOWARD L. BRAINARD has been named marketing manager of resins and additives at Inolex Chemical Company.



WILLIAM R. GALLOWAY JR. has been named chairman, president and chief executive officer of Petroferm Inc., which develops technologies in the petroleum, electronic chemicals and health-care fields... JUSTIN L. HIRSHMAN has been appointed director



William J. Freund, who has been appointed vice president of global specialty chemicals at John son Wax. He was most recently global director of Johnson Wax's specialty chemicals busi

commercial evaluation and development in the Development Division of M&T Chemi-

BOB WEISE has been named sales representative covering Northern Detroit and the Flint and Saginaw areas in Michigan for ChemCentral Corporation, DAN W. YINGER has been appointed a sales representative in the Atlanta area, ROBERT WILSON has beennamed a sales representalive in Greensboro and JERRY WILLIAMS has been appointed sales manager in Detroit. GEORGE R. GREENLEE has been named



Dow Chemical Names Associate Scientists

Dow Chemical Company has named Frank L. Saunders an associate scientist in the Polymeric Materials Laboratory and Richard Solem an associate scientist in the Advanced Technology Applications Research Labora-

Dr. Saunders joined Dow in 1953. He has been awarded 21 patents and is the author of 17 publications. Dr. Saunders is an expert in colloids and latex polymers.

Mr. Solem joined Dow's special assignment program in 1966 and has worked on a variety of assignments in the Michigan Divi-



district manager for "Bondmaster" products at National Starch & Chemical Corporation. WILLIAM L. FAGLEY has been appointed business counselor for Dow Chemical Company... RAMESH RATAN has been named



BUSINESS BRIEFS

vice-president for finance and administra-

tion at Repligen Corporation. CARL U. NABLO has been appointed senior sales representative at Unocal Chemicals Division of Unocal Corporation, responsible for developing distribution business in Eastern Tennessee and parts of Georgia.

BUSINESS BRIEFS

DU PONT next year will award cash prizes of \$10,000 in each of two categories - new construction and reconstruction — to recognize excellence in architectural design. The awards program, open to all US and Canadian registered architects, will be limited to buildings completed within the past five years that incorporate single-ply membrane synthetic rubber.

IBF SA, a biotechnology firm based in France, has created a US subsidiary, IBF Biotechnics Inc., based in Savage Md. The iew company will distribute chromatography and tissue culture reagents in the US and

plete line of gels for chromatography and a line of silica-based gels.

MOBAY CORPORATION has published a new "Merlon" polycarbonate design manual. The 48-page brochure addresses design considerations including structural design, design calculations, the influence of orientation, design details to permit proper processing techniques, elements of and tolerances.

ink, paint, coatings, plastics and industrial finishing market.

RESEARCH POLYMERS INTERNA-TIONAL, Grand Prairie, Tex., says it has Canada. IBF says it has developed a com- developed a catalyst concentrate for use in

polypropylene injection molding applications. The material, when used at low concentrations with polypropylene resins, will increase melt flow and improve processability. the company says. Improvement in part production rates of 25 percent have been established for hard-to-fill multi-cavity molds without loss in physical performance, according to the firm.

RHONE-POULENC ARGOCHIMIE is combining all of its operations in Japan into a new subsidiary, Rhone-Pulenc Agro KK, which will be responsible for development and sales. The new company will be a 50-50 joint venture of Rhone-Poulenc Agrochimie and Showa Rhodia Chemical. The latter is a joint venture of R-P and Showa Denko. Showa Rhodia will continue to manufacture oxadiazon, a herbicide used in Japanese

VAN OMMEREN, the Rollerdam-based ser-

tion, storage and trading, has acquired E.T. Horn Company, an importer and distributor of specialty chemicals in the US. E.T. Horn represents approximately 30 major US and foreign chemical companies in the food, paint, pharmaceutical, plastics, adhesives and electronic industries.

WITCO CORPORATION'S Humko Chemical Division has installed computer-controlled bagging lines that can automatically package any of more than 200 different oleochemical products in an integrated production operation at its Memphis, Tenn., plant. The installation includes two lines that (III, seal and weigh 50-pound bags of flaked fatty chemicals in a sequence of operations diected by computer. Operators are needed only to remove bags from the scales at the end of the lines and to stretch-wrap pallet loads with plastic film, according to the com-

petroloum congress, international forum for exchange 61st annual dinner, Waktorf-Astona Hotel, New York. CHEMICAL MARKETING REPORTER

JANUARY

Mariott Hotel, Charlotte, N.C., January 27-28.

ASSOCIATION OF THE NON-WOVEN FABRICS INDUS-

CHEMICAL INDUSTRY ASSOCIATION, luncheon meet-

ing, Parker Meridien Hotel, New York, Jenuary 29.

COMMERCIAL DEVELOPMENT ASSOCIATION, BUT BIT

SOAP AND DETERGENT ASSOCIATION, 60th Annual

LATER ON

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS,

center for chemical process safety, international con-lerence on chemical safety issues, Omni Shoreham

AMERICAN PETROLEUM INSTITUTE, 12th world

nual industrial commercial development course, with Delphi Marketing Services, Inc., Shereton Centre Ho-

Meeting and Industry Convention, Boca Raton Hotel

and Club, Boca Raton, Fla., January 29-February 1,

TRY, third highloft and fiberfill conference, Executive

CHEMICAL SPECIALTIES MANUFACTURERS ASSOCI-

CHLORINE INSTITUTE, Winter meeting, Mayflower Ho-

DRUG, CHEMICAL & ALLIED TRADES ASSOCIATION,

tion Center, Beijing China, April 3-9.

tel, Washington, D.C., March 15-19.

ATION, 73rd mid-year meeting, Chicago Mariott Hotel, Chicago, III., April 28-29.

MEETINGS CALENDAR

Houstin, Tex , April 26-May 1,

Tex., February 4-5, 1987.

chnical information about the petroleum industry, March 19; Spring luncheon, Sheraton Centre Hotel, ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS,

12th annual Spring workshop and exhibition, Skyline Ottawa Hotel, Ottawa, Ontario, Canada, April 27-30. FERTILIZER INSTITUTE, 1987 annual meeting, Marriott Orlando World Center, Orlando, Fla., February 1-3. CHEMICAL GROUP OF NATIONAL ASSOCIATION OF FIRE RETARDANT CHEMICALS ASSOCIATION, Interna-PURCHASING MANAGERS, mid-Winter conference. "Purchasing — Opportunity in a Changing World," Baton Rouge Hilton Hotel, Baton Rouge, La., Febru-

tional conference on flame retardancy and fire safety. Sheraton New Orleans Hotel, I CHEMICAL MARKETING RESEARCH ASSOCIATION, INSTITUTE OF GAS TECHNOLOGY, 11th annual sympo-Houston Meeting, "The US Chemical Industry-Responding to Change." Westin Galleria Hotel, Houston,

aium on anargy from blomass and wastes, Hotel Royal Plaza, Walt Disney World Village, Buena Viste, Fia.,

INTERNATIONAL PRECIOUS METALS INSTITUTE, 11th International precious metals conference, Brussels, CHINACHEM '87, international exhibition on chemical and petrochemical industries, China International Exhibi-Belgium, June 14-18

INTER-SOCIETY COLOR COUNCIL, scientific conference, Williamsburg Lodge, Williamsburg, Va., Febru-NATIONAL PETROLEUM REFINERS ASSOCIATION,

85th annual meeting. Convention Center, San Anto-nio, Tex., March 29:31; 12th International petrochemi-

conference, Convention Center, San Anta Tex., April 5-7.

December 29, 1986

POLYURETHANE MANUFACTURERS ASSOCIATION, Spring meeting, commercial development of new castable systems. Fairmont Hotel, Dallas, Tex., April

SOCIETY OF MANUFACTURING ENGINEERS, advanced ceramic /87 conferen nau, Ohio, February 17-19.

SOCIETY OF PLASTICS ENGINEERS, South Texas BEC tion, fifth international conference on polyclefina Wyncham Hotel-Greenspoint, Houston, Tex., Febru ary 23-25; SPE-ANTEC, Bonaventure Hotel, Los An-

SOCIETY OF THE PLASTICS INDUSTRY, 42nd annua conference of the composites institute, Cindinati Convention & Exhibition Center, Cindinati, Onio, February 2-8; vinyl formulators division, 9th annua

THE FERTILIZER INSTITUTE, 1987 Annual Meeting riott Orlando World Center, Orlando, Fla. Februs

DEGUSSA AG of West Germany has established a sales company in Istanbul, Turkey. The company, known as Degussa Ticaret Ltd., will be responsible for all the Degussa activities previously conducted by Boykim

PEER CHEMICAL, Wheeling, Ill.-based supplier of organic pigments, has appointed Pacific Coast Chemicals Company of Berkeley, Calif., as its West Coast area representative. Pacific Coast Chemicals will be responsible for marketing Peer's product line to the

vice group involved in worldwide transporta-

CHEMICAL MARKETING REPORTER



NEWS AT HOME

Adhosives Plant Stated by Fulfor ... 4 Advanced Materials Use Grows 5 Asbestos Coalition Formed...... 5 Bendectin' Award Overturned 5 Burnham, Schuler Elected...... 5 Carbide Sells Ag Unit 3 Chemical R&D Spending Up 4 Columbian Sale Complete 4 Damon Blotech Wins Patent 7 Ou Pont Scores Aramid Victory 3 Du Pont Selis Polyester Units 9 Exxon Starts Up Rosin Unit 4 Fiber Optic Sensor Market Grows ... 7 FMC Sells Chloralkeli Plant 3 FTC May Delay Acquisition..... 9 Gov't Rules Push Solvent Change . . ? Himont Offers Shares...... 5 Kermes Namod SmithKline E.V.P... 9 Leprosy Drug Approved......5 MDI Growth Will Slow 3 . Methylene Chloride Limits Urged... 7 OSHA Cites Sheli 7 Pesticide Restrictions Extended . . . 4 Textile Market improved in '86 7 Vaccine Shortage Feared 7

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Functional Monomers

METHACRYLATES

tert-Butylaminoethyl Cyclohexyl

Dimethylaminoethy Diethylene Glycol

Ethylene Glycol

Tetrahydrofurfuryl

CATIONICS

Isodecvi Lauryi

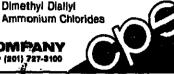
ACRYLATES Diethylaminoathyl Dimethylaminoethy

Phenoxyethyl Tetrahydrofurfuryl

GLYCIDYL ETHERS

QUATERNIZED MONOMERS DMS Quaternaries MC Quaternaries

CPS CHEMICAL COMPANY





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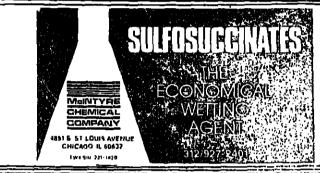
CMR MARKET INDEX

CHEMICAL MARKETING Dec. 26, 1988 151.65 REPORTER's market index of chemicals and related materials Dec. 12, 1986 151.51 (100=1974 average), based on Nov. 28, 1986 151.83 97 key commercial chemicals, Dec. 27, 1985154.13 appears alongside with data for two weeks ago, last month and last year.

Chemical Prices Start on Page 24



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CHEMICAL MARKETING CUES

NONYLPHENOL: Consolidation will lead to better many gins Page 42 DEG: Price hikes are slated by most major productions:

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PERFUMES: Synthetic musk prices expected to a rise. Page & FERRIC CHLORIDE: Producers face a mostly softman. Reference to the softman. ket



acid, oleic acid, isosteanc acid, sebacic acid, hydrogenated tallow acids and tall oil fatty acids

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